A Riot Threatens to Destroy Your Business

By Tim MacWelch | Illustrations by Sarah Watanabe-Rocco

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Stack Diamond Applic



Looking like it just landed on the surface of the moon, the aptly named Apollo spews out 80 lumens of bright ambient light on its highest setting and is adjustable down to 10. lumens on its lowest setting. Because its globe is frosted, its LED light is soft and easy on the eyes. In

its compact form, the Apollo feels robust enough to take more than a few joits and is easily packed away until it is needed. It deploys by extending its frosted section above its body, which in turn reveals the power button. The lantern sits on three rubber-tipped legs that fold down from the sides of its body. The extra height gained provides a wider area of light dispersion. At top are hooked loops that allow the Apollo to be hung,

Pros: Compact size, lightweight, ease of use

Cons: Cannot be activated in its compact form

Kelty Flashback Mini



In its compact form, the Flashback Mini acts as a flashlight. Whenfully deployed from its telescoping aluminum body, it's a lantern capable of lighting up an area about 15 feet in any direction. It is capped on either side with rubberized plastic ABS ends, which further adds to its durability. Its top cap includes a steel O-ring so that the lantern can be hung up. Its Cree LED is powered by four AAA batteries and features a digital locking switch, which keeps itself from turning on when stuffed into your pack. When the switch is activated, each press rotates it through high, medium, low, and strobe modes

Pros: Two lights in one, solid build, weather resistant

Cons: Top D-ring can be hard to pull out

Streamlight The Siege



The Siege is hardcore It's rated IPX7. meaning that it's waterproof to1 meter and is impact resistant unto2 meters It also floats in water and has a rubber molded cap, body, and base for enhanced ario. Its provides 360 degrees of soft light

that illuminates a large area and can go as long as 12 days on its low setting with just three D alkaline batteries. Its recessed switch activates the lantern's white LED from a high 340-lumen mode down to 33 Jumens in low mode. It also has a 10-lumen red LED mode for preserving night vision and a flashing red SOS mode for emergency signaling that runs an impressive 430 hours (that's almost 18 days straight). The Siege can be hung from its top or bottom hooks and has a stowable carry handle.

Pros: Robust build, long runtime, brightness

Cons: Weight for its size

Goal Zero Lighthguse 250 Lantern



Packed full of features the Lighthouse 250 Lantern can be charged via a wall outlet. a huilt-in hand crank. or even with an optional Goal Zero solar panel. Its two Cree LEDs can be activated one at a time or

together: single LED provides directional lighting and a longer runtime while dual LEDs provide brighter, unidirectional lighting. Unlike the others in this guide, the Lighthouse 250 includes a USB port that lets you charge other devices and has the capability of keeping itself charged (with your help) via its hand crank. One minute of cranking provides about 10 minutes of light. The dial switch on its face varies how bright the light output is and a small emergency button activates flashing red signal lights on the lantern's cap.

Pros: Integral hand crank for charging, USB port to charge other devices

Cons: Does not accept disposable batteries

COAST FALZO



The Coast EAL 20 LED Lantern is equipped with nine LEDs (one white and eight red). which provide approximately 375 lumens of bright light on its highest setting or 80 hours of runtime on its lowest power saving setting with four O batteries. Lantern lighting options include white variable area light and

flashing red or solid red options. Its power push button is separate from its dial dimming switch so you can choose how bright you want the light to be before you turn it on. The EAL2O also has a battery-life indicator and handle to allow for hanging or carrying.

Pros: Brightness selection dial is independent from the power button

Cons: Heavy weight

Coleman CPX 6 Triago Lantern



The Triago illuminatesa wideswath of area at 450 lumens on its high setting for up to 13 hours. But the real highlight here is that the lantern can split into three independent panels complete with individual

constant on/off switches that toggle between high and low modes. On high mode the ganels have a throw of almost 20 feet. Use them together as a wide area lantern or pop one or more off to use as personal lanterns. It's ideal to keep at home or in a vehicle in case of power outages and other emergencies. Four D batteries or a proprietary Coleman rechargeable battery cartridge powers the lantern and its panels. Each rechargeable panel runs for as much as seven hours when removed from the charging base.

Pros: Flexibility, brightness, rugged build

Cons: Size, weight, price



ou earning it the blege	doar zero Ligha lause 250 Lantein	
Coyote	Black	
High340/Mid175/Law33/Red10/5.0.5.10	High 250 / Variable	
High 30 hr. / Mid 70 hr. / Low 295 hr. / Red 235 hr. / S.O.S. 430 hr.	High 2.5 hr. / Low 48 hr.	
375 in	45in	
7,25 In.	6.25 in.	
1 lbs14.8 oz.	1 lbs 3 5 oz.	
Dithree not included)	Rechargeable Li-NMC (included)	
Constant-on push-button switch	Rotary dial switch, emergency signal push button	
\$61	\$80	
www.ctroamlight.com	WWW.nn.strorp.com	



MAKE & MODEL	Coast EAL20	Coleman CPX 6 Triago Lantern
₩ COLORWAY	Black and yellow	Black and red
LUMEN OUTPUT	High 375 / Variable	High 450 (antem) / High 150 (panel)
RUNTIME	Low100 hr.	Low 300 hr. (lantern) / Low 7 hr. (panel)
 TO OVERALL WIDTH	5,5 in.	6 in.
OVERALL HEIGHT	8.25In.	10.75 in.
WEIGHT WITH BATTERY	2lbs4.5oz	4tbs 5.2oz.
BATTERY TYPE	O (flour, not induded)	D (four, not included), rechargeable cartridge (sold separately)
CONTROLS	Constant-on push button, variable output selection dial	Constant push-button switch on lantern base and on each pane
S MSRP	\$54	\$120
W URL	www.coastportland.com	www.coleman.com

MAKE & MODEL OGIO

Endurance 9.0 Athletic Bag

DIMENSIONS 13 H x 27 W x 12.5 in. D

MSRP \$150

URL www.ogio.com

NOTES

While many of the models featured in our off-the-shelf go-bag buyer's quide on page 98 come packed with supplies and features, some of them are pretty obvious about that fact. That could spell bad news in a lawless situation if you're surrounded by raiders. A better option may be to go the discreet route. using a rugged pack that won't attract attention. The Endurance 9.0 from OGIO could easily serve this function thanks to its quality construction and smart design. The large main compartment is supplemented with a shoe compartment. a lockable crush-resistant pocket for sunglasses or smartphones, and a wet/dry storage section with 360 degree ventilation on the bottom for soaked clothes. It can be carried as a duffle bag or worn like a backpack. Use it as a gymbag, a utility bag, or a low-profile survival pack

MAKE & MODEL ZeroHour XD Flashlight

DIMENSIONS 2.28 x 7.28 inches

MSRP \$225

URL

www.zerohourxd.com

NOTES

At 1.2 pounds, the rechargeable ZeroHour XD Flashlight is by no means an everyday-carry torch. But it's an ideal gadget for the first day or two of a catastrophe when you need both illumination and a means to charge vital electranics that can help you communicate or signal for help. Thanks to its 10,000-mAh capacity, the XD can double as a charger to iu ce up to two smartphones. GPS units, or Bluetooth-enabled devices via dual USB ports. It has a Cree LED that emits a max 1,000 lumens up to a distance of about 420 meters (or a quarter mile). Plus, it has four modes, as well as two "hidden" modes of strobe and 505 - helpful in all sorts of situations. With a hard-anodized aluminum body, a stainless-steel bezel, and a waterproof design up to 1 meter, the XD Flashlight is a hardcore torch you can store at home, in your car, or in your

MAKE & MODEL Waterlogic Hybrid Water Purifier

DIMENSIONS 5.5 W x 12.1 H x 13.7 D in.

MSRP \$300

URL

www.waterlogicfirewall.com

HOTES

Whether a crisis makes your community's water supply questionable or you just want to be doubly sure what you're drinking is safe, an extra filtration system is always a solid backup plan. The Hybrid Home Water Purifier from Waterlogic uses three components to treat H₂O. a carbon filter that absorbs chlorine, microbes, and other contaminants: Waterlogic's Firewall UV technology that claims to remove 99,9999 percent of pacteria and 99.99 percent of viruses; and a reservoir and nozzle that are treated with Biocote. providing antimicrobial protection against the formation of bacteria. As the name implies. the Hybrid Home Water Purifier is ideal for use in your own abode, but it could be loaded up on your boat, RV, or anywhere with an electrical plug.

MAKE & MODILL **Kloud City** 8-in-1 Multi-Function Hammer

OVERALL LENGTH

6.2 in.

MSRP \$13

URL

www.amazon.com

NOTES

We've all seen the classic Swiss Army knife, but have vou ever seen a Swiss Army hammer? That's probably what you first thought when you saw this little bad boy. Your second thought might have been does it work? While the lock that keeps the pliers' handle closed might not last long, the axe, hammer, can opener, and other tools should do just fine with light-duty tasks around the house or out in the field. Made of stainless steel with a hardwood handle. this unique multitool won't chop down an oak tree but weighing just 8 8 aunces means it's an option if you're looking to keep your bug-out bag lightweight.





OB HIGH THE

PORTABLE LANTERNS

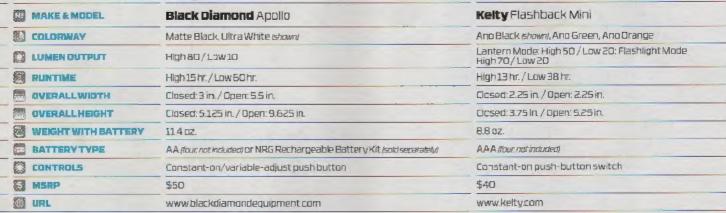
By John Teator Photography by Michael Grey

o you've finally made it to safety. Whether you're taking shelter from a passing tornado or hunkering down in a basement until the bad guys leave, at some point you'll need to

be able to see in the dark. It's obvious that having a source of constant light is invaluable.

While we always preach that everyone should have a flashlight, keeping
a portable lantern at the ready can
illuminate your workspace while freeing up your hands. Like most lighting
equipment, portable lanterns come in
many shapes and sizes with differing
features. In this guide, we take a look at
models that can be easily stowed. These
lanterns are made to be packable and
can be stuffed into a car trunk, glovebox
camping pack, or bug out bag. Depending on what your end use is, there's a
lantern here that'll fit your needs







WWAVENEENCERCO CON

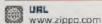
p When SHITE

rcially-Viable Shotgun Suppressor









NOTES If fire-building isn't in your skill set, consider the OUL, or Outdoor Utility Lighter. It has a dual flame technology that makes it wind-resistant, while its metal construction and rubber handle let it shrug off harsh conditions. There's also an adjustable flame dial, a patented childresistant safety button, and a ring to attach the DUL to a backpack. Once depleted it's refillable using Zippo Premium Butane Fuel.

PUBLISHER & TITLE
Ulysses Press
Countdown to Preparedness:
The Prepper's 52-Week Course to Total Disaster Readiness

FORMAT Trade Paperback

MSDO \$16

www.ulvssespress.com

NOTES If you're a city slicker who's completely new to prepping, figuring out where to start can be daunting. Fortunately, there's Jim Cobb's Countdown to Preparedness. Unlike other survival manuals, this 256-page paperback is presented like a yearlong course with each chapter representing a week of study, complete with homework assignments. The first section covers the basics — food storage, family emergency planning, etc. — but the four other sections (each centered on a season of the year) can be read in any order. While Cobb doesn't go into depth on any one lesson, he does emphasize things that you might not think of, such as saving extra cash every week to

Wild Things Tactical Knuckle Roaster

COLORWAY Coyote (shown). Mu tiCam

MSRP \$119 (coyote), \$79 (MultiCam)

www.wildthingsgear.com

DEL

MITTES You ever see a football game in which a quarterback tucks his hands into a white pouch around his waist? He's not reaching for a snack or his playbook — he's warming his hands. Now thanks to the Knuckle Roaster from Wild Things Tactical you can do the same, whether you're in a pickup game, going on a hunt, or bugging out in the middle of the winter. Just slip your hands into either end, and the Polartec Power Stretch barrier will keep your paws toasty in separate slots. There's also a zippered storage pocket and an adjustable web belt. The Knuckle Roaster comes in Multi-Cam, but for an extra 40 bucks, you can get it in a covote version that's also flame resistant.

MAKE & MODEL Columbia River Knife and Tool Sting 3B

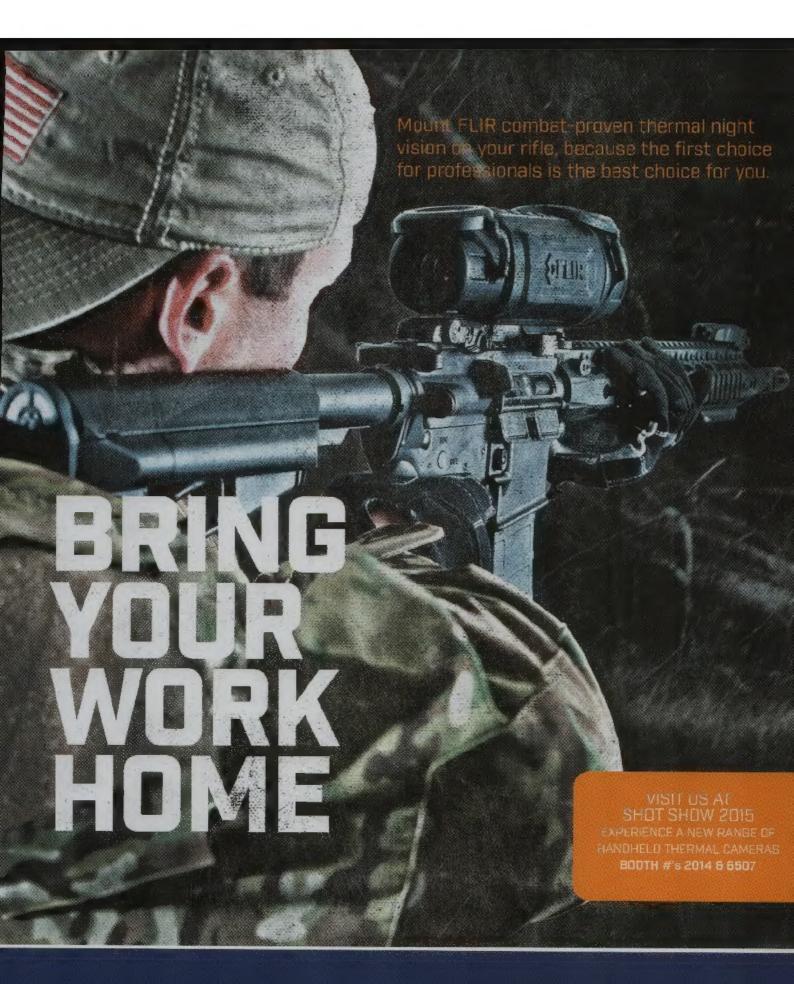
DVEBALL LEMETH 7.19 in.

\$60

OWL www.cckt.com

> MUYES The Sting 38 is a fulltang fixed blade that has the same feel as the original Sting design. but weighs less than half. The BCr13MoV stainless-steel blade features a spear point, two cutting edges, and a hollow ground. The comfortable handle has textured G-10 scales that offer an assured grasp and high durability. The Sting 3B comes with a glass-filled nylon sheath that can be strapped to your belt, your boot, or your backpack.









Tall Kneeling Thoracic Spine Rotation with Tip

Targets: Back

Repetitions 3 per side

Start in a kneeling position with both knees down While staying tall rotate from your upper back with your hands benind your head. Your hips should remain forward. Once you turn as far as is comfortable, tip your torso on the same side as the direction you're turning. Repeat, turning a little further each time. Complete three times on each side.



Cold Weather Modifications

Cold weather requires a few minor exercise mod icalitions that should be addressed to further the effectiveness of a warm-up. Since the topic here is staying active and preparing for cold weather scenarios, it's safe to assume the ambient temperature will be pretty frosty in light of that, in creasing tissue temperature is weighted a little more heavily.

Passive, pre-warm-up strategies can be used prior to exercise to further your preparation for do diveather exposure. The most obvious way is to spend five to 10 minutes in a warmer environment wearing warm clothes to raise your body temperature and trap heat in your clothing. You can also consume a warmer beverage such as tea or coffee. Not only does the heat of the drink help to elevate body temperature, the caffeine can also improve performance.

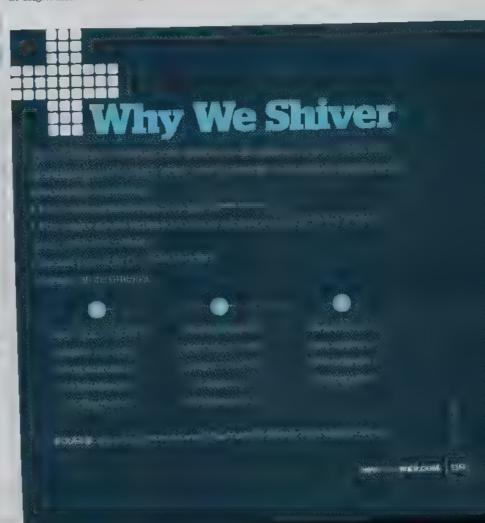
Look at adding more layers or warmer fabrics during you warm-up and activity. What fabrics and how many layers will depend on how cold it is. The goal in a warm-up should be achieving a light sweat, However, in the cold, sweating shift idea as it's an awfully efficient cooling mechanism. It's best to shoot for a general feeling of increased warmth, but do your best not to break out into an all out sweat.

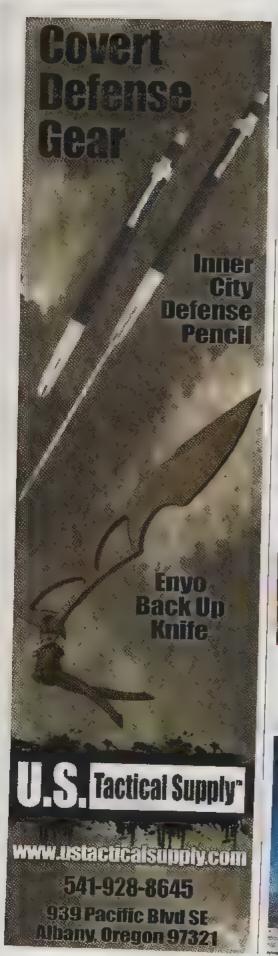
Be mindful of hydration as well. Water can still be lost through sweating and even breathing. Exercise increases breathing rate to meet the demand of the activity, and with breathing, water vapor is lost possibly leading to dehydration over time.

Whether it's something planned or not, physical activity in the cold can present several challenges. Your ability to adequately sense cold and respond accordingly can be at fected by several factors, including exercise induced fatigue, depleted energy stores, and sleep deprivation. So, make sure you're adequately rested and fed ideally, before venturing outdoors for activity. Follow these tips, and you'll be ready for whatever Old Man Winter has in store this year.

About The Author:

Ryne Gioviano is the co-owner of Weligee Personal Training & Lifestyle located in Naperville Illimois. He received his master's degree in exercise physiology and is a certified personal trainer through the National Strength and Conditioning Association











OFFGRID



E BUILD

By Ryne Gioviano Blustrations by Chris Bywater

Charle First Frank Physical

to enjoys spending time frolicking
in frigid temperatures? Exactly As a
result, staying warm and cozy indoors
often comes at the expense of physic
caractivity, Humans were never meant

to ribernate, confrary to what most people do after Thanksgiving dinner or what teanagers think when theyre forced out of bed on a Saturgay morning. We don't always have the usury of a heated building with a roof over our heads, so our ability to cope with the environment, a critically important to our ability to not only survive, but thrive in a cold weather scenario

Winter can present many that enging situations and force you into an uncomfortable, possibly even dangerous environment for an indeterminate amount of time, icy conditions often lead to increased traffic, car accidents, and vehicle break downs. Getting stranded can mean being stuck on the side of the road waiting for a tow truck of a lengthy trek through knee high show.

Maintaining or improving your fitness level is essential in freezing-conditions, as your chances of escaping a potential hazard drops as the mercury fails. Don't let your fitness level be the weak rink in your chain of preparedness.

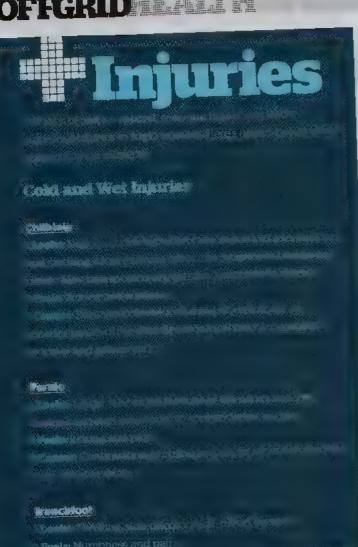


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Cold and Dry Injuries

Frostnip

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SOURCE INDUSTRIES ENVIRONMENTS ÉXAMOS MASICADO

The Spiderman

Targets: Groin, hips hamstrings Repetitions. 6 per sade

Take an exaggerated step forward and place your hands on the floor in lune with the instep of your front foot. Complete six times per side



The Spiderman with Rotation

Take an exaggerated step forward with your left foot and place your hands on the floor in the with the instep of your left toot Now turn your upper body and point your right flugers toward the ceiling. Complete six times then do the same on your left side



Frosty Fashion

When it comes to cold weather apparel the primary goals to keep your core (torso) warm. Core warmth must always be maintained. When core temperature drops, blood vessels constrict in the extremities to reduce blood flow and conserve heat, Reduced blood to the hands and feet leads to diminished motor control and other physiologicals are effects, it is obvious, then, that your clothing will make or break your survival.

For the base layer, prior fize tighter fitting mo sture wick ing fabric, as you still might sweat regardless of the tempera ture. The second layer should be a thermal layer designed to trap heat well. These are made in varying thicknesses and fabrics, so look to match the fabric to the temperature. The colder it is, the thicker the fabric should be to trap more heat clasty the outermost layer should be waterproof and windproof. Protect on from the elements is the top prior ity. This layer will also act to prevent heat from escaping through the fabric. Make sure to choose colors that fit the activity as brighter colors will allow you to be found in show more easily.

The face and extremities are at the nighest risk for developing cold injuries due to skin exposure and blood flow alterations. The less skin exposed the better Therefore gloves are mandatory. They maintain manual function and movernent, as well as provide a layer of paw protection because who knows what you I have to do when youre suddenly caught in an emergency. The head can be a sig in ficant source of heat loss in cold weather it's best to wear a facemask (similar to a balaclava) that covers everything from your neck to the top of your nead. The breathing of cold and dry air is a major issue with physical activity in the cold so the mask will a low air to be warmed and numidified before inhaling meat loss and potentially, dehydration can occur if your breathing rate gets nigh enough. But be prepared to get a few stares, though as "terroristichic" isn't quite in fashion this season.

Once you've selected your winter dothes, don't be alarmed if you feel just a little chilly for the first five to 10 minutes of activity if you're feeling warm immediately, the heat generated through exercise will end up causing you to overheat, possibly leading to heat stress believe it or not

Warming Up

A properly designed warm-up is the critical starting point to any workout or physical endeavor. While you may be able to get by without one, you're increasing the likelihood of injury and, at the very least, reducing your output during that activity.

A warm-up should address key things like increasing bodily fissue temperature, improving joint mobility and flex brity priming your nervous system, and improving posture and alignment. Within this warm-up, it's best to address the more mobile oints of the body, such as the hips, ank es, and thoracidispine.

For ankles, the wal, ankle mobilization with hip flexor stretch is very beneficial. The "Spiderman" works well to gain mobility in the groin and stretches the back hip as well. The thoracic spine features both extending and rotating requirements, so something like a tall kneeling thoracic spine rotation with tip works very well. You car also put them together into a Spiderman with a rotation, addressing all three areas in one movement.

Wall Ankle Mobilization with Hip Flexor Stretch

Targets: Ankles, hip flexors Repetitions: 8 per side

Start with one knee down and the other foot planted in front of you Grab the ankle of the back foot and place your other hand on the wall Slowly rock forward, attempting to get your knee to the wall while keeping your heel down. Complete eight times per side



11

Brite-Blade

411: Featuring replaceable LED lights. the multi featured Brite Bade is specifically made to handle diverse surviva situations, It includes a 3.5inch biade carbide window punch, a seatheit and line cutter that doubles as wire stripper and affre starter striking tool its body is made of 6061 hard-anodized aluminum and has a slot lust above the blade for one of two included mini LED flashights (one white, one red) to adhere to. At the base of the min LED lights are magnets that allow them to not only be retained in the body's ight slot, but also on any ferrous metal, such as iron and stee. The min flashlight units are interchangeable and rated at 45 iumens each. To power the light on, it must be removed from the knife and its head twisted unt , it turns on, then replaced back into the knife's body

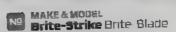
With the light being positioned just above the blade, shadows are cast from the blade depending on what angle the knife is being employed Most chopping and sitting maneuvers Win create a dark enough shadow to make it cumbersome to use. The good news is that head on stabbing and abbing angles are affected less by the shadow of the biade (At east you can see what you are stabbing.) Since the fight is removable, you can conceivably remove it and reposition it to cover the area you need to see - even on the biade itself. The two lights are small and not meant for any meaningful use at distance, but are serviceable in your mmediate workspace

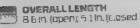
The knife has many features we like seeing in a folder, including the use of 440C stainless steel for its blade, an interchangeable full length spring steel pocket c.ip, and spring assisted opening mechanism. The blade

stayed straight no matter what angle we used it at even under full body weight. The model we received for this review has a combination biade with nice serrations, though a full straight edge version is also available. The blade is quickly deployed with a flick of the thumb and kept in place with a stainless steel liner lock.

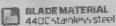
feeling forcer that incorporates a few survival themed features that we really like, such as a removable fire-starter striking tool and robust window punch. As competent as the knife is, we feel that the flashlight portion of this combination was not as strong — surprising since it comes from Brille Strike, which is primarily a maker of this a very capable knife with a light that you can use in a pinch. We look forward to seeing what innovations the next generation of jointed knives will bring.



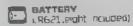


























113



BladeLight Camp

MAKE& MODEL

SOG BladeLight Camp

DVERALL LENGTH

BLADELENGTH

BLADE MATERIAL BC(1) MOV stamess steel

490z

BATTERY

AAA Included)

84mins

URL www.sagknives.com





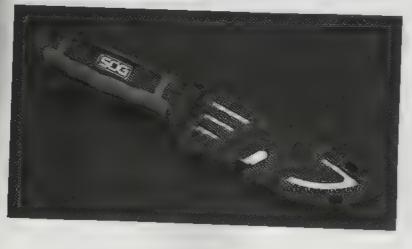
411: The BladeLight Camp is one mode in a full the of luminated knives offered by SOG. Designed with campers and outdoor enthusiasts in mind, the BiadeLight Camp features six bright LED ights and a sath polished 4.5-mch stain ess-steel fixed blade With three LEDs mounted on either side of the blade, the lights combine for an output of 30 limens. That's enough Furnination to light up a smail workspace or the path in front of you. We found the positioning of lights on both sides of the blade a low for shadowless, ininterrupted ight to shine out to an effective distance of 20 to 25 feet. Its real strength is within the confined workspace of 2 to 3 feet however The ghts color is white bordering on bluish-white and isn't harsh on the eyes, even when being used close up in the dark

The knife is securely stored in a hard nylon sheath that has an integrated bade sharpener and metal belt c.ip it has sints that allow the six L. Ds to shine through it so you don't need to point your or sheathed knife at whatever you wish to light up. The lights are powered by one AAA battery and are activated by air libber zed push-button switch in the butt of its classife inforced nylon handle. Those

with sausage fingers might find the handle a bit small for their liking, but its slightly grippy rubber texture doe make it easier to maintain a good gr

The BladeLight Camp measures a length of 9.2 inches overall and weig a paltry 4.3 ounces. The blade is made of 8Cr13MoV, a made in China stainle steel that's commonly used to help balance price with performance. We observed no flexing even with our full weight on it while cutting into different materials and at different angles. The blade looks and feels capable and should offer problem free usage.

Verdict: After spending an extended period of time with the BiadeLight Camp, we see why SOG made efforts nto creating all ne of light-capable knives. Being able to ight up what you are cutting siding, or prying is a definit bonus when you only have two hands to work with while in the dark Sure, t's easy to say that you wouldn't need a ighted knife if you were wearing a nead/amp, but let's face it, we don't always have the right tools for the right job available to us at all times. A lighted knife takes two tools and combines them into a single useful package. Granted, the knife's light is just enough to work with and shit a replacement for a dedicated flashight by any stretch of the imagination. You'll still want a "real" flashlight when you really need to see what's lurking in the dark. But if we had a choice between a knife that can heip light up the night and not wed choose this one for its added capability





Bore Cleaner

Having a clean, properly functioning firearm for defense is a good idea especially lift ever hits the fan Should you find yourself out of cleaning patches an alternative way of cleaning your firearm is by way of tampon Most tampons are perfectly sized for 12-gauge shotgun barrels, but smaller wads ripped from the tampon would work for other carbers, bus the tampon as you would a cleaning patch running it through the barrel several times with deaning and ubricating solution if it is available use another piece of tampon to clean out the breech and chamber

Candlewick

The string attached to talfipons, makes excellent can dewicks. Perfect for blackout situations, you can fashion the makeshift candie by using anything such as cooking oil, shortening, crayons, and older used-up candles. Make sure to cost the string in your chosen candle fue to allow the candle to burn more efficiently. Fill a non flammable, open top container with the fuel and place the wick into it, light Landlen, oy the slow burn.





Reviewing Brite-Strike's Brite-Blade and SOG's Bladel ight Came

By John Teator



minded readers, you know that an pelifesavers. But since we're tool chest with you every we're tool chest with you every with inventions ever. They is fires, Flashlights let us se change it compine them into their tools, some manual their knives. Of course, their

e lighted knive

a lighted knive

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3 SOGs BladeLight Can

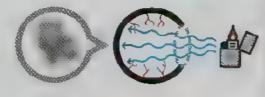


How Vision Works

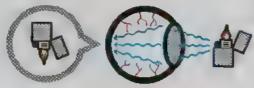
Vision is our brain making sense of light that is collected by our eyes. As light bounces off an object, it travels into our eye focused by the lens, and lands onto the retinal The retinal uses this light to form an image that is transmitted to the brain via the optic nerve



flour eyes had no lenses, light Would enter the eyes and land on the retina from every direction. making for a very burry mage



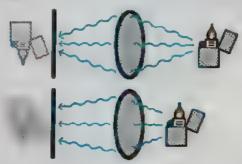
The eyes tens helps focus ght and form it into a sharp image onto the retinal



The optionerve transmits the visual information from the retina to the brain which is what allows us to see



Whenever you look at an object, you li realize that the background and foreground are burry while the object you are doking at is in focus. This happens be cause the eye's iens can only focus light coming from one distance. This is called the eyes focal length. Objects too near or far are perceived as out of focus



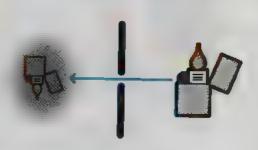
Fortunately for us, our eye's musc esican contract. or expand the ensiso it can change the focal length arowing us to see clearly at various distances



How Pinhole Vision Works

Pinholes, by their very nature, imit the amount of light that can enter the eye. This helps block out extraight noise that would otherwise create a bur Thanks to the small opening, light streams into the eye from a focused direction. So your hand becomes an impromptulens less Ight bounding around inside the eye means that looking through a pinhole inherently keeps

By looking through the pinhole you create with your fingers, you are limiting now much light is entering your eye, thereby "f taring" the excess ight that would otherwise blur your vision

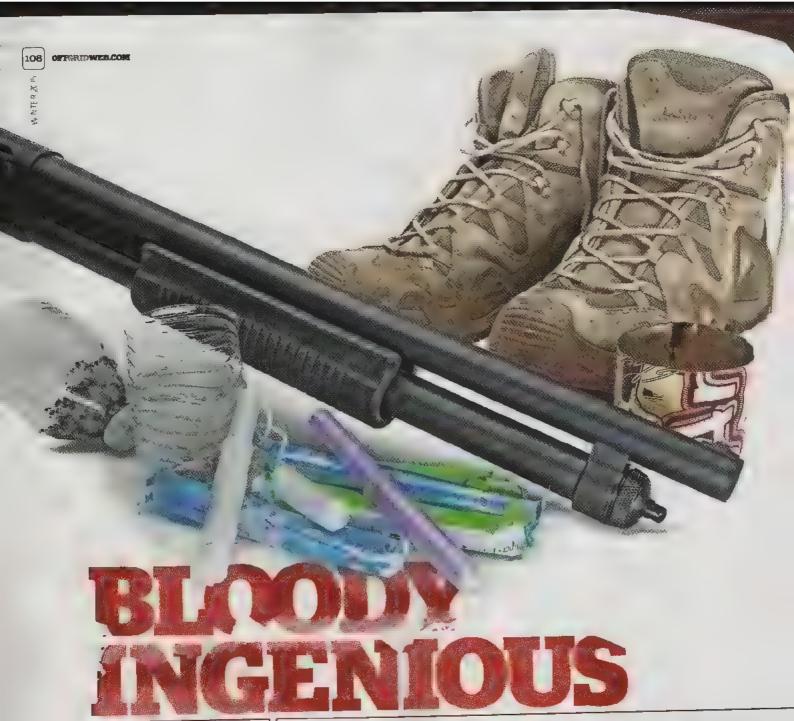


Disadvantages

Disadvantages to using pinhole vision, however are that it does also mean less light getting through to the eye, as well as a severely limited field of view Less ight neans that your vision while looking though a pinnole 5 darker

But when push comes to shove, using this method for even limited focused vision is a nice tool to have in the proverbial too box in a SHTF situation, it could mean having the ability to tell if that dark blob 30 yards away is an abandoned car or a band of marauders lying in wait 👯

Because walking around with your hand to your face can get a bit annoving, we suggest keeping backups of your eyeglasses stored away in case you get separated ftorn your primary set. Keep an extra pair or two of your prescription glasses in your bug-out bag or an alternative location, such as at work or anyour vehicle Even older prescriph in glasses can be of some help versus not having glasses at all



6 Survival Uses for Tampons

By Martin Anders Photosby Michael Grey ome of the most ord hary items
found at home can be used alternative to be used at the saving needs.

Repurposing everything from cooking on, snack chips and even used teal bags can help you get through a tough spot of you know what to do with them (See "House hold Survival" in OFF GRIDs Spring 2014 issue)

As you, can tell by the title of this article, we're about to delive into a household item that some people might be too shy to speak about, let a one buy, stock, and experiment with. Yes, people,

weire talking about one particular feminine hy giene product here the tampon

n this case tampons are no laughing matter knowing what you can do with them can mean ving to fight another day so listen up. Tampons are made out of biends of cotton and rayon. Cotton and rayon are both absorbent and flammable materials making them useful for a wide range of survival uses. Tampons come in many variations, most any of them will work for our suggested uses in this story. But for best results, we recommend non-scented ones that come wrapped in plastic

Brownells ESG Essentials All-In-One Kit

Brownells, a leading retailer of firearms parts, tools, and accessories, introduced its Emergency and Survival Gear (ESG) ineup just this past year The ESG kits cover almost any kind of situation you might encounter from being snowed in during a complete white-out to trying not to float away after a major flood. The ESG Essentia's All In-One Kit combines four ESG Kits into one all-indusive package you can carry on your back.

Though it's the most expensive pack in this guide, its priced at a discount when compared to trying to piecing the kit's parts together in dividually. The array of tools, gear, and suppres in this kit should give you ample capacity to face most any emergency. The Power Hyglerie, Water Filtration and Civil Unitest kits are orga nized in their own separate organizer bags. The compact backpack the kit comes in fits about 22 iters of gear, is sturdy, and is made of thick nylon with heavy-duty zippers it has hip and sternum straps to help you balance the go bag on longer treks

This kit allows you to do a whole host of key tasks, charge batteries and devices with a Goal Zero solar pane kit, keep your spirits and health evels up with to letries in the hygiene kit, filter water and stay hydrated in a variety of ways and plenty more

Note it doesn't include water, food or per sona protection items such as gloves, gogg es and respirator masks, so you listill need to add your own for a more complete bug-out bag Browners has other kits, such as its ESG Essen tia Pandemic Kit, available that could complement this kit if you have the inclination (and the cash) to add more gear

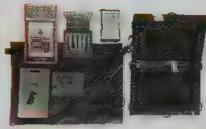
MAKE & MODEL BITIWIND ESG Essentials Al. In-One Kit APPROXIMATE DIMENSIONS
18 in. H x 9 in. W x 8 in D



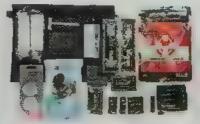


www.browners.com





- Goa. ZeroGurde, OKit
- 1 Goal Zero rechargeable AAA batteries
- SureFire CR123 batteries (6 pack)
- UST Voit XI
- 1 Organizer bag



- United Spirit OK 72 Hour Kit.
- Adventure Med.ca, Kits Adventure Medica, Wipes
- 1 UST Surv.va. Towel (2 pack)
- 1 Organizer bag



- Sawyer M.mi Water Filtration System
- 1 Potable Aqua Chior ne Dioxide l'abiets
- 1 Camelbak Lleddy
- 1 Orally
- I Organizerhag



- Pro Mag Archange, Detense Pen
- Top Cop 0 68-oz Stream
- ASP Baton
- Ontario Knife Company JPT 3S Drop-Point Folding Knife
- I Organizer bag

PINHOLE VISION

Glasses Broken? Contact Lenses Fall Out? See Without Them.

in a scrift TV show, his predicament is something that anyone who

optic nerve

thich is wha

er you lo

has corrective lenses can

relate to and should be aware of **By Martin Anders**

bespectaded man, who only longs to read sur nany type of emergency, there is a risk losing, breaking, or not vives a nuclear ho ocaust and finds himse fithe last man on Earth at a library full of books. He thinks even more time to put on, can take more care to maintain, and are nearly impossible to reuse or find if lost. But what if a disaster hits unexpected y? What do you do if you are caught without the benefit of having your optical aids?

This ironic tale was the plot of "Time Enough at Last," a 1959 episous of *The Twilight Zone*. Although this man's misery played out.

Fortunately there is a way you can focus your blurry vision quickly and without any tools in fact, all you need is your hand.

File this impromptuisight-restoring maneuver in your mental survival a skills toolbox under "just in case."

Pinhole Fingers

By forming a small 'prinhole' with your fingers and ooking through them, you'll find your vision is significantly sharpened, even if you regularly have very blurn, when Go anead, take your glasses off and try it Neat little trick isn't it? This simple action can help you when you're in a pinch. But just how does it work?

WARNING

This article is meant to be and ick overview and not a detalled guide on improved visual improvement methods. Whenever possible always carry spare prescription glasses or contect legges. Attempting to see without prescription by overview as solety at the reader's risk.

EVERY ROUND COUNTS

WHEN YOU GO OFFGRID



The KRISS Vector A5 ACP CRB is the ideal finance for the 21st century bug-out-bag. Be prepared with the most innovative development in the arms technology in own 120 years. The KRISS Super is most mitigation system reduces felt receil by 50% and muzzle elimb by 95% when compared to institional operating systems. The advanced polyment in the province operation is both durable and lightweight. When faced with sudden, extreme intuations, you will be ready with the most powerful and controllable 45 ACP fivearm in the world.



Multipour local KPISS dealer today to discover the newest addition to your bug-out-bag.

Locale your nearest dealer at www.kriss-usa.com or call our toll free number: \$1 855 KRISS US (574-7787)



The sider absorbs recoil energy and redirects the energy downward and away from the shooter's shoulder, reducing muzzle climb.



NOTADROP TODRINK...

...Unless You Improvise With Your Own DIY Water Filters

By Jim DeLozier

WARNING

Auct nervies of Pipo are the age of the territory and a tiere ye for Australia

nater of questionable quali s potentially conjection an

Ready America 4-Person Emergency Kit

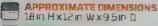
t is recommended that we should be prepared to fend for ourselves for at least the first 72 hours after a disaster. The Ready America 4 Person Emergency Kit is a decent start to hit that goal Compared to the other kits in this guide, this bag is bare bones, but it does have some of the basics covered For sustenance, it includes four bricks of 2,400-calorie rations and four fiters of water. Ponchos, goggles, and dust masks for four people are included as is a 107 piece first aid kit for very minor in units.

The backpack that the kit comes in leaves a lot to be desired, however this rather filmsy and reminds us of backpacks we took to school — when we were 7 years old On the positive end this bag has a reflective strip on its front pouch as well as a reinforced rubber zed handle up top, which are nice touches we do wish a higher-quality zipper were employed because the ones on this bag feel like they could fall at any time.

While this kit is not our first choice in disaster preparedness, its price tag makes it also id fourth or fifth option. You can purchase one of these to have ready at locations that you don't frequent much (your mother in law's, for example), but would still like to have alk't ready just in case.



4-Person Emergency K t (tem #70380)



WEIGHT 18 55 402

MSRP \$100

\$10

www.readyamerica.com







- 4 Food ration bars
- 4 Boxes of water (1 Liter each)



- 4 Emergency panchos
- 4 Safety goggles
- 4 Disposable dust masks
- 8 Natile graves



- 4 Surviva alankata
- 1 First Aid Kit (107 piece)
- 4 Emergency ight sticks (12 hr)
- 4 Pockettissue packs
- 1 Pair of gloves
- . Emergency whis Je
- 3 Biohazard bags
- 12 Moist towelettes

103

Lansky Tactical ocalypse Survival Kit

Lansky's Tactical Apocalypse Surviva kit or TASK is a ightweight, no-nonsense bug out bag that houses only the most essential of survival tools. There are neither provisions not water to weigh this kit down. What it does have are tools that were carefully selected for their practicality and ef tclency

The TASK includes aim altituse axe. LED flash ight, mult tool combo-edge knife, a LifeStraw for on the fly water purification and more Everything is housed in a heavy duty 20 iter rigion. backpack, which features a padded back panel a large main compartment and front pouch, both with organizational pockets, and compression straps that help keep everything held down in place. The back of the bag. has a zippered compartment that can fit a hydration carrier in case you wanted to add one. Mesh and elastic water pottle pouches are found on both sides of the pack for additional storage its hip and sternum straps are adjustable to help you find the perfect fit and support. This bag is capable of carrying more than it comes with so although it is on the small side it does have additional space to add your own selection of gear and supplies to it







- 1 Multiuseballeaxe
- 1 20 Functionmalt out
- 1 LifeStrawwater punfier
- 1 Tactical flashlight



- 1 Easy-Grip Knife
- I Blademed r Sharpener
- 1 The Puck (dual grit sharpener)



Piresteel Fire-starter

- . Button Compass (on the handle of the Parestee.3
- 1 550 Paracord branele (8 feet)
- 1 Min. survival gil de



Lansky

Tactical Apocal ypse Survival Kit



APPROXIMATE DIMENSIONS
19 in Hx 10 in Wx 7in D



6 bs 10 oz



5200



www.ansky.com

Urban Survival-Pak Level 1

For those who require a smaller, essino ticeable bug out bag that packs a defensive punch, the Orban Survival Pak (USP) is right up your alley. This over the shoulder bad conceas its true usage, which comes in handy when you don't want to broadcast to the world that you're carrying a whole stash of supplies. The bag comes with an interest ing mix of gear, many of which lean heavily toward personal defense it includes more than a few defensive tools, including bedder spray (where a lowed by law), swimmer's goggies for tear gas eye protection, and two sets of handcuff keys. Carrying this theme further, the bag includes an amb dextrous holster hidden inside a special weapon com partment for concealed carry of a handgun

The USP is on the smaller side so it's only natural that the amount of supplies it carries is less than that of the larger bags in this guide. The point of this bag is to get you in and out of areas a bit more ningaliske with a certain level of protection at your disposal. Think less Bear Gry is and more lason Bourne.

tis made of ball sticinylon with a comfort able, fully adjustable padded carrying strap. It has an oversized and adjustable center compartment with hy on drawstring and multiple exterior pockets, including one that can secure a water bottle.

That brings us to a few highlights which include a McNett Tactical Aquamira Water. Filter Bottle that treats up to 100 galloris and removes 999 percent of chlorine bad taste and cryptospor dium and glardia (parasites that cause "beaver fever") it also includes a quality Gerber Suspension Multi-Tool a couple of emergency food bers and water packets. A rud mentary first aid kit is included as is a radio and emergency blanket. All though one of the priciest in this guide and not built for sustained survival for its size the JSP has the potentral to get you out of a jam and to your rendezvous point quickly.









- 1 Gerber Suspension Multi Too
- 2-oz. pepper spray (substituted with a mufe in states not allowing pepper spray)
- 1 Swimmers goggles
- 2 N95 respirators
- 1 Sudecon tear gas decontamination wipe
- Jead On Tools Exhumer Musti Franction "Tool
- l'acticalSpiked Kubalon Self Defensive Tool with writing pen and pocket cup
- 1 Self defense power punch key nolder "tool"
- 1. Pair of mylon covert rubberized gloves
- 1 Covertiblack six way wearing balactava/cap
- Persona, a.arm and door alarm attachment with 9-vo.t pattery
- ¿ Handouff keys standard and covert)
- 4 HDBlack16 in zip-ties
- 1 Rear viewing covert "sunglasses"
- I Single side razor blade Pair of foam earplugs
- 1 McNett Tactica, Aquamira Water Filter Bottle
- 2 Purified Water Pour hes (4.20z.)
- 2 400-calorie emergency foodbars
- 1 Lifesavers ro...
- 1 US Military Medic Wound Bandage
- 2: Germ X antibacteria, wipes
- 2. Antiseptic wipes
- 2 Thuprofen (200 mg)
- 1 Triple antibiotic ointment
- 1 Fabric knuck e bandage
- 2 Fabric adhesive bandages (1x3in.)
- 1 Safetyptn
- 1 DryFiex water proof pouch
- Surviva Wh.stle with breakaway .anyard and SLIMRescue Howler Whistle
- 1 6 footfolded duct tape
- I AMKmin.ro..ducttape(2x26.n.)
- I Liquid filled button compass
- 1 550 paracord wristband (10 feet unfolded)
- 1 Denta, Noss
- 1 SOLSurv val Instructions
- 1 SOL tear proof emergency blanket (56 x 84.n.)
- 1 LED flashinght with battery
- 1 Red flash, ight plastic film with two rabber bands
- 2 Handwarmers
- 1 Scriptobulane lighter
- I Fire Uniter lint One-Handed Fire Starter
- 4 Tinder QuikFire Starting Tabs
- I Coby Compact AM/FM Radio with batteries
- 1 Rite in the Rain Waterproof Note Pad
- 1 Wotingpenet
- 3 Wet wipe alcono
- . Compactionet assue ro...

Echo-Sigma Get-Home Bag

Ecno-Sigma is a husband-and wife team that got into making emergency kits be cause they couldn't find kits that suit their needs. Since starting up only four years ago. Echo Sigma has quickly made a name for itself as a producer of quality disaster preparedness wits. A big draw for Echo Sigma is its use of top quality products and highly customizable options for most of its offerings its signature item the Get Home dag, has made a splash in both the main stream public and niche survival realms for a owing customers to select what they want in their bags so that theyre not stuck with gear they?" Just toss aside

The Get Home Bag is a mid sized disaster preparedness kit that features eye, mouth, and hand protection, as well as fire starting and water purification capabilities and much more. The backpack is rugged and built to take abuse, it offers decent support with both sternum and hip support straps and a comfortable padded back. It's not very large so every cubic inchiof it is used to carry gear and supplies. Our featured sample bag even has an axe hanging on its exterior it can easily find a home under your desk at work or in the trunk of a small car.

If saving time is the main motivator in your decision to purchase algo bag, youll want to take a long, hard look at this pack it may not be the cheapest one around but it does allow you to choose what too's come with it

The eyel of custom zation is uncommon in this genre select from four kinds of multitools, five models of flashlights, multiple types of knives, and even a couple of pressurized hydration systems. The bags come ready to go there is no need for removing packaging from individual items. All the included products are arranged organized and stowed for fast and easy access in case of an emergency.





- 1 Hydration System (2.5 liter)
- 1 Echo Sigma L3 Day Provision Pack with MRE (optional)
- >1 Mea. Ready to Eat MRE)
- >3 Foodra, inbars
- >1 Drinkingwater 175 liters)
- •1 Рарегиеркия



- 1 Echo-Sigma Compact Surviva, Kit
- >1 Compass
- >1 Emergency whistle
- >1 Emergency blanket
- >1 Butane disposable ...ghter
- >1 Magnestanifire-starter with flintstriker
- >1 Duct tape (50 in.)
- >1 Bottle of water purification Lablets
- >2 Chemica light sticks
- *1 Emergency fire-star er
- >40 Waterproof matches
- >2 Balipoint pens
- >1 Pad of paper
- >1 Set of earplugs



- 1 Echo-Sigma Compact First-Aid Kit
- 1 50GB63PowerLockEODMart.Tool(optional
- 1 Waterproof LED Flashlight by Fenix E25 087 lumens)
- 1 SOG Fast Hawk (optional
- 1 M.d.andER200 Mt. t.PowerRad.o.coptional)
- 50 Feet of military-grade 550 paracord
- 10 Exitalarge ziplies
 - . Emergency tube tent
- 1 Emergency Poncho
- Plex glass mirror
- [Thermals, eepingbag
- 6 AA batteries
- . Pair of eather work gloves
- 2 N95 rated respirator masks
- Pair of Protective goggles
- 2 Handwarmers

Are Off-the-Shelf Bug-Out Bags Right For You?

By Martin Anders | Photos by Michael Grey

Ife is hecticlehough. Working, running er rands, picking up the kids, fixing that leaky faucet — there's a never-ending to do ist. Try compounding that daily grind with formulating an emergency plan based on a to be determined. Ife-altering catastrophe of unknown or gins can be overwhelming to say the least. But if you're reading this magazine, it means you're responsible enough and have enough foresight to make disaster preparedness a priority. So, is there alway to balance everything going on in your

fe to find the time to get ready for what may come? Well

you're in luck. There's an entire industry ded

cated to convenient preparedness.

You probably have a ready seen the products while surfing the Web shopping at your local big box store, or flipping through the advertisements in these pages. Readymade emergency supplies seem to be popping up everywhere, especially as of late. The concept of saving time and money by buying a prepackaged kit is one that we appreciate, but how do these products really stack up? Based on their per suasive packaging all these kits sound convincingly useful but are the kits full of things that you'll never need or packed with tools that don't work well or at all?

Let's set the record straight. We at OFFGRID believe that the best kits particularly go bags or bug out bags (BOBs), are the ones that you assemble yourself. You are the only one who knows best what your and your family's needs and preferences are. You know your terrain cumate, community and what type of disasters that your area is prone to. Only you know your disaster plan, where you will bug out to and other contingencies. Companies that offer prepackaged survival kits do not know any of these factors. They can only distinate what people will need.

We do, however like the idea of readymade bags as a starting point because of their me saved on piecing one together from scratch. But for off the shelf BOBs to work, you I need to further customize them to suit your needs. While they can save you time, it is a long shot if they's save you

money as you'll no doubt need to dump some products to make room for personalized terms like medications extra batteries, your favorite tools, or specific foods (in case you have all ergies or a certain paiate).

And don't forget the bag itself. Will thold up to the rigors of surviva? How does it feel on your shoulders on a hike? If it wont last ditch it and get a sturd in more comfortable one (See OFFGR D's premiere edition the Summer 2013 issue, for more on how to select a survival backpack.)

Due to the vastness of the market and considering the I mitted pages a lotted for this article, we examined imited number of preassembled go bags of varying budgets sizes, and uses. Before spending your time and money, take a closer look at the following buyer's guide and see if theres a ready-made bug-out bag that could serve as a starting point for your own BOB build.

NTER 2015

Nitro Pak

Executive 72 Hour Survival Kit

This survival kit covers the basic needs for two people for about three days, it has water food (in the form of ations), basic tools (ke a flashiight, radio, and multitod) work gloves, and even altent. This Nitro Pak kit includes with a water fiter straw always handy in any survival situation. The ny on backpack itself comes in bright day glow orange for easy spotting, which can be a good or bad thing depending on the situation. (Good if you're stranded and need to be rescued Bad if there's lawlessness and marauders are looking for easy targets.)

The kit includes a large selection. of compact sized survival items that cover a variety of needs from warmth and shelter to food and first aid Most of the items seem to be from reputable companies or of standard or better quality Our concerns are with the bag itself. The shoulder straps seem rather thin and spaced closely to one another which doesn't seem to be a comfortable way to carry 17 pounds (plus what you add to it) on your shoulders

This bag's interior is rather large and has plenty of space for you to add more stuff it has a good selec tion of small terms, especially in the basic needs categories if we were to use this as a base to build our bag, we would add a more potent primary fash ight and use the one nouded as a backup. Same thing goes for the mill too which doesn't seem as capable as others that we've handled before. We would also add a head amp and some spare clothes But if you need a secondary or tert ary bag this might fil the bill eft as is







- 2 SPACE Brand Emergency Blankers
- * *mergency rain/wind ponchos
- 2 Hand/pocket warmers
- Prontier water filter straw
- Compact samitation/tol et tissue packs
- ¿ Compactiacial tissue parks.
- Delaxe AM/FM radio with batteries
- Writingpad pendi, and inkpen
- Deck of playing cards



60 itemfirst aid kit with ristruction book

- 1 Bagof Hard Candy
- 6 Emergen Civitamin packets

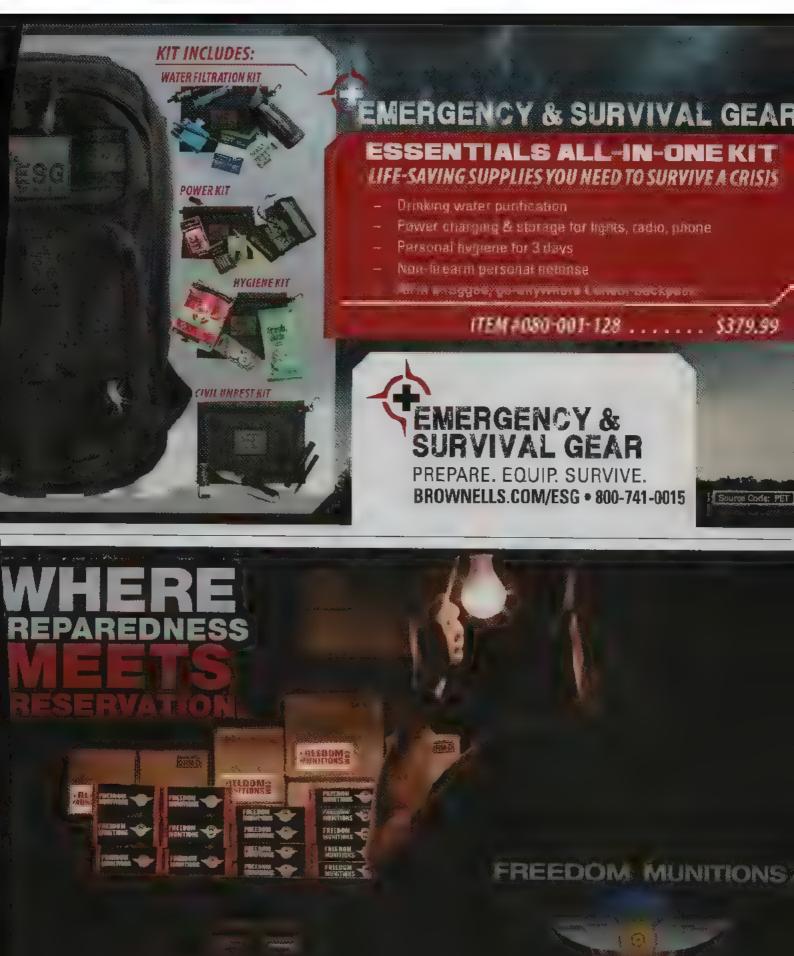


2 3,600-calorie cookie-flavored ration bars

24 Purified drinking water pouches (4.202)



- 1 Deluxcheavy duty tube tent
- 1 50-toot nylon cord
- 1 Pair offea hergioves
- Box of waterproof matches (45 st.cks) Industrial flashlight with batteries
- 1 12 hr instant light stick
- 1 36-hr emergency candie with three wic 2 N95hospita, grade dua masks
- I Emergency survival whistle 2 Disposable san.ta. on bags
- 1 Trash bag
- Pocket knife
- 18 Wet wipe parkets



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ine between looking too clean and healthy (thereby making oneself a target for the have-nots) and looking totally destitute (making one a target of those who prey upon the weak while also unapproachable to those who might be willing to offer help). Depending on the type of disaster you find yourself in money might still be worth something. If you are displaced to an area not under distress, you may be able to work for cash so you need to be approachable if money is not worth anything you can still trade your labor for things you need which many of the homeless do. A general consensus was that begging or panhandling was not very effective, so you can't rely on handouts.

Another survival concept consistent among the homeless was the value of having cheap transportation in namely a reliable bicycle. Those fromeless who owned a bicycle had a distinct advantage over those who didn't Every street person we interviewed eyed our bicycle with envy and almentioned the importance of one. Why? Fuel may not be available, and roads are easily clogged by panicked motor ists – but bicycles can go a most anywhere with nothing more than a little leg musice. Plus, they're easy to hide or secure and a low a person to travel great distances quickly will expending little energy. These attributes allow one to obtain resources from farther away and help you get out of harms way swiftly. The impoverished who owned bicycles also had a lock (preferably a u-lock), a small set of basic tools, and spare parts to keep their bikes reliable. One man suggested having a small bicycle trailer for hauling additional supplies and gear (See OFFGR.Dis Spring 2014 Issue for more on bug-out bixes and their accessories.)

Learning how to adapt is also strongly suggested. For example, the older manifep aced a broken pedal with one tabricated out of a wooden block. If you find yourself off grid, improvisation will be used in every aspect of your if enotices those regarding your bicycle.



Lessons bearing

About Medical:

Prepare sortie basic medical gear and know how to use it. Know where alternate medical facilities are (as hospitals might be overcrowded overrun, or quarant ned) and plan transportation routes to reach them. Also if you have eiterly relatives to care for you'll need to plan accordingly.

» About Hygiene:

Notionly does improper hygiene cause medical issues to flare up, it can also mark you as a target. Don't look too clean, but don't look completely destitute either

∄ About Transportation:

Off the grid, bicycles are king. Without the need for fossil fuels or electricity bixes can get you out of Dodge quickly and via many different routes.





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Anvisible People

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www.javisiblepeople.tvl

National Coalition for the Homeless

A reportal network of neurosciences and property and property and property and end to

www.nationalhomeless.org

Project Night Hight

itie ateistame organismo dobates ite: orbitamati

www.projectnightnight.org

U.S. Department of Housing & Urban Development

www.hudexchange.info

Veterans Affeirs

File all assens a sense venerate MAD balence is confident followeding seating and loss balence and ATA

www.va.qov/homeless



Survival Priority: Backpacks

That's right. You read correctly — backpacks. We know how much you love them so listen up. Topping the list of needs of the homeless is the backpack. The general consensus is that if you want to keep some thing, it should be kept on your person. Think vitalitems, ke your Dicash payment cards, and weapon(s) Depending on the situation, these items can give you access to resources, such as your bank account or government assistance should you be able to reach it. These belongings are almost impossible to replace in a disaster scenario. (Also, should there be some sein blance of awand order you'll want your CC Wipermit handly if you're carrying a weapon concealed.)

To carry all of your other needs, you should have a good quality low-profile medium sized backpack. That

means it should appear used and somewhat dirty. A huge pack that's gistening new with all kinds of good les hanging off of it will definitely make you a target. Many of the interviewees related instances in which they were robbed. Others recalled how they often sieep with an arm through one of their pack's straps.

We asked a our interviewees, "If you could have a backpack filled with anything but cash and crack cocaine what terms would you want in 12" Notisiurprisingly, the 5 C's popped up in everyone's answers, a container for water, a cutting implement is uch as a knife), cover (e.g. altarpitent, or sleeping bag, cordage (to secure terms and make shelter), and a form of combustion (usually a lighter though fires were seldom used because they attract attention).

in addition to the other items previous mentioned by the interviewees, some of the vagrants expressed interest in having a flashlight a small radio, extra warming Gyers, extra footwear extra set of ciothes. Writing implements, baby wipes, a small stove, and cooking and eating utens is. These are typical items most survivalists would have in a 72 hour go-bag.

Lessons Learned

B About Backpacks:

Few things are as essential as a good backpack because it can carry all of your other vital kit (water, food, fire-startiers, etc.). Find one that's medium sized and low-profile to stay discreet, load it up, and keep it dose to you at all times

Takeaways

In addition to the critical gear already mentioned many of the drifters we talked to suggest having things you can part with. Barter items in namely agarettes, all cohol and drugs (legal and if egal) would be valuable to have in I mited quantities so that you can trade with others you deem safe to negotiate with (Obvious yi the severity of the disaster and the condition of the government should be taken into consideration before obtaining a Tything if egal) For example if you re not a smoker, trading away a pack of agarettes for creature comforts like to jet paper would be unknowned.

All of the people interviewed for this story Were visibly nervous it if on the street is quite stressful. Deing properly prepared can reduce that stress in times of per l. These interviews gave us a small gimpse into what a fluture living off of the grid would be like.

We've certainly taken their essons seriously cross referenced them against our own preparations, and

have adjusted our plans for TEOTWAWK accordingly. We suggest you do the same, because it doesn't take much for average folks to end up on the streets whether it's due to a sudden psychological affiction, the economic fallout of being fired or a natural or manimade catastrophe that wipes out your community.

About The Author:

Peter Palma is a freelance writer who served overseas as an infanity machine gunner and scout sniper in the U.S. Marine Corps. After leaving the service he competed on TV's Top Shot during its first and fifth seasons. He currently resides in Louisi and, where he teaches basic firearms classes is enrolled at Louisiana State University, and operates his weapons-cleaning accessory business, MS Clean



Primary Needs: Food, Water, Shelter, and Security

There's a lot of community support for the homeless Most of their basic needs are met by local churches or shell ters. But as your read later these handouts may not a ways be an option. Though every interviewee survived differently there were definitely some common themes

Most everyone had a water container that they would refil by using hose bibs attached to bisinessesic osed for the day. The types of food that they carried were nonpershable and prepackaged, and therefore didn't need to be refrigerated or cooked. When asked if they would steal food. fithe community could not provide it, the answer was a unanimous ves

Thoughts on the subject of shelter varied greatly depend. ing upon the situation and the individual's temperament. Some street people find clean beds at community shelters but there's always more demand than supply. Also people entering a shelter (or a FEMA camp) will be subject to a search, so those not wanting to give up firearms, other weapons, and possibly medication will have to seek shelter elsewhere. Many of the homeless interviewed disilked the shelters because of the overcrowding and thievery jundoubtedly two problems that would be compounded in a disaster situation.

A partially disabled 63 year old man we interviewed constructed a small encampment hidden deep in a wooded region, located far away from the densely populated home iess district. He chose this type of area to stay away from others competing for resources. But he also chose to set

up his camp near train tracks because snakes common to the area, diske the strong vibrations created by passing rallway cars. Being so far from resources reduired him to own and maintain a bicycle for transportation.

Meanwhite a man in his early 20s. used a drastically different approach. He so ely occupied abandoned struc tures, constantly changed his rollites. and only moved under cover of dark ness to avoid detection. However, his austere nomadic existence limited his possessions to what he carried in his backpack and on his person.

A middle aged man occupied a ten. within walking distance of community resources, but remained on the outskirts of the densely populated area.

One side of his "territory" was covered by a fence, while the others had a clear view of anyone approaching. In the colder months, he would move his encampment into the shelter of a nearby abandoned building. This manididn't try to hige his location, but kept his presence known, unlike his weapon which was a rather sizable and rusty cane knife he kept hidden. He man admitted to being a multiple felon, was an mposing figure, and had narcotics in plain view People I ke this are already out surviving on the streets, so should you find yourself among them, we suggest being hyper aware of your surroundings and distributing your trust sparingly

terson used Idras i onstalit i moein forth Beliving a heist eets This ormer gardenina mps mentis a war se interese to all







Regardless of the type of she ter used, we noticed certain themes reoccurring throughout our interviews. Every man had some way of getting his sleeping area up off of the ground—be it pallets, a mattress or bedding materia. Also they all utilized some type of early warning system to alert them of approaching danger while they slept. Some placed brokening assign trash in the pathways of buildings. Others ted trip wires in the woods or simply blocked entrances with materials that would be noisy to move

Those who chose to stay with other homeless people actually used some "challenge words" or code in much like the Alles did during War World is D. Day when troops would challenge anybody approaching with the word "flash and shoot if the pass word "thunder" wasn't given in return

Lessons Learned



* About Food:

Pack nonperishable food as conventional cooking and refrigeration will be finited or nonexistenting a SHTF scenario. Consider purchasing meais-ready to eat (aka MREs), learning how to prepare your own canned food or stocking up on commercially available canned food (see our "Meat Feast" reature story eisewhere in this issue)



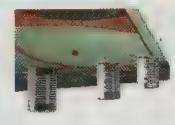
About Water:

A container of some sort is a must for any survival st, be it a plastic milking or state-of-the artistainless steel water bottle (see OFFGR D's Fall 2014 issue for more)



» About Shelter:

Because the location will depend on your specific situation and where you choose to set up camp, there's noisingle best" type of shelter But a roof over your head and a bedding area elevated off the ground is essential.



» About Security:

in any dire scenano, be it home reservess or after a natural disaster overcrowding is nevitable at shelters (whether set up by the government or charitable orgain zations), as is property theft. So, estublish either a trusted net work of friends (the kind your ite depends on) or an early warning system around your shelter self defense tools are a no-brainer.

Secondary Needs: Medical, Hygiene, and Transportation

Once the basic needs were covered, we deved into additional needs that are not so immediate but still quite important.

Medical attention is usually given out at clinics and hospitals, but what if there are none available? Or, as in the case with shelters, you don't want to be forced to give up your weapons or medication? From our observations, the

alternatives aren't so pretty. Most vagrants either se filmed cated or simply suffered through the rial ments. Also, itying on the streets without medical support appealed to get exponentially more difficult with increasing age.

On a related note, proper hygiene could have not only prevented some of the infections and medical issues we observed, but also could have served a secondary purpose of looking more presentable. And no, we're not talking about dressing up for job interviews. There appeared to be a fine

rester#1: Patrick Vuong

) At First Bite: it's Spam with a first of East Asia. and siathered in a saline sauce

Overall: Who doesn't overthis mystery meat? a enjoy it do occasion as a component of fried rice as a complement to eggs, or as the main ingredent in Spam musuor. So trigured the teriyaki version would be just as good. To my surprise it was roally sailty — and that's saying a ket for Spam. While it would be most agreeable with a generous amount of white rice, the probabily stock my provisions with regular Spam and save this version for when liwant to feel extra Asian.

nester#2 John Schwartze

At First Bite. Havorful, but please don't pass the saft

Derail: Spam is something ase, can't romem ber the last time late outside of some Hawailan oursine that uses it. Mine was terryak so had a bit more flavor than expected, but was really salty. Comparatively speaking it was pretty good - the texture was firm and could be used as a moe gried steak as filling in a sand with or dispiped up and served with other things. This would be and served with other things. This would be another that apply resort to furnes guillean his versat ifly flavor didd texture make it a worthis more often to find new and exciting ways to make that good when mixed with other ingredients. Plus, can sing the Monty Python Spam song white I'm cooking it as an added bonus.

TESTER#3 Martin Anders

) At First Bite: its a brick of meet, what's not to

Deverall: Stocking up on Sparm in case SHTF is a no-brainer secision: Loading up on this tertyak version on the other hand is quest onable it is surprisingly sweet, clearly a result from its very strong fertyalo havor but it also has an unasual after laste that the ongina flavor doesn't mave it can't say that I'm digging this version, but if you already have a five-year supply of original Sparm, it probably wouldn't nurt to throw in a few cans of elternative flavors, like this tertyak version just to mixitup a bit.

> At First Bite. For those who we never tried canned tune. It had a safey yet slightly sour texture to lowed by a "seafgrooty" after aste.

Poverall. If you relations cards not or a fitness from you're probably well adquainted with this style of seafood. Some guys I know eat this straight from the fin for lond, and nothing enself has a storetiouse of protein, which not only he psipulid muscle, but also keeps you feeling ful longer—which is highly useful when rations are low. I suggest eating it with veggles, rice, or crackers, "ve long gotten used to canned tuna, so this portion of the tests test was fairly helburity of rather have a plate of fresh fund sashim, but, hey, prepages can't be choosers. "Id venture to guess that in dire circumstances, this tuna would be paratable enough for most people."

At First Bite. Derable but definitely not my

Deverall: For some reason (Ve hated canned tuna shoe of idnood enjoy sushior a nice grilled tuna shoe of idnood enjoy sushior a nice grilled tuna shoe of idnood enjoy sushior a nice grilled tuna of this kind so my evaluation is a bit biased. This is a good source of procentagid numers, but my prefer ence would uncertage tunents, but my prefer ence would uncertage the choice. There's a lot you can do to jazz this up with mayo, onlong, etc., but ma forced situation with nighting else to use?) would likely be using this as a bartering chip, more than would a source of sustentings. My cat was happy to finish the majority that I couldnot, which also makes it a reasonable alternative pet food wikeep your four egged buddies going if there's nothing else to us.

At First Bite: Very ctry with a sour tangy flavor

Doverall. Sure, thise myself a good tuna-melt once in a white. When i took a mouthful of tuna straight from the care, it was a bit disappointed. This shift what my tuna melt is made up of a lit? It is consistency a similar to overly couked chick en soaked in a sur water. Can I eat it fit a sur water that to mad some mayor and other seasonings to add to it? Absolutely

At First Biter This and my first time at the Vienna sausage rodes — easily my favorite dead an mar product of this faste test

Overals: In thibe tool the been eating these little bad boys since twas a kid (though a lot less after linealized what goes into making them), so had zero infribitions when cracking open the lid. These are basically mini. hotdogs that you can eat straight up, throw into soup or stew or douse in ketchup and mustard with some bread. Stock up on Vienna sausages without reservation fairs.

At First Bite: Mushier than Fexpected but had a rice flavor

Dovarall: don't remember the list time I had one of these that wasn't slathered in barbroue sauce and served hot as some sort of Christmas party appetizer so my palette was pretty objective. These were quite nice and something fid definitely stock up on if food became scarce. They weren't consulty and had a rittle flavor il expected a firmer texture, but it wasn't so soft that it was gross. There are a variety of things you could eat these with isauces, mixed with other items, as a side dish) that would make them a nice part of a complete meal: I you like het dogs, you'd like this

) At First Bite: Soven little piggles all soug in a can.

) Overall: A childhood favorite of mine, the vienna sausage is the younger cousin of the hot dog. By no means is this a gourmet food but it is enjoyable to eat — aspecially when you're hungry do like the fact that it comes maisma, pull-top can. They re painless to carry in a bug-out bag or cargo bant pocket and easy to open when it's lime to out."

OFF THE FILE ENTERNAME OF THE PROPERTY OF THE

Survival Lessons Learned From Society's Homeless

by Peter Pairns

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ine. Regardless, tinding a coherent participant wasn't alw.

(nev egganose a special is a ferrovina formatic i moderation graniera formatistypour stocalis et



At First Bite: Would vote ke some cold rab with your 4a t7 All sodium okes. side this canned shellfish wasn't that · y a fferent from the noiculously xpensive staff you buy at a swanky. -stautant:

Overall: didn't think it was possible. but you actually can (burnintended) satiate your appetite for exquisite seafood dining is a SHTF scenario. The meat was shredded to kny bits and salty, but otherwise authentic - especially when: heated up to supplement other foods. tried it with good of mac and cheese: but eating it with crackers would also be flavority and more plausible in a surviva-Situation.

At First Bite: Straight from the can, it

surprisingly tasted like decent paté with

· Overall: I can certainly eat this cold

even better aften i fired it up on the

skilled and ato it with scrambled egos

Considering this is bid potatoes mixed

rather pleasant and almost tasted like

It didn't come from a carrat all. It gets a

with law grade dow parts preserved with

sodium nitrie, the corned beef hash was

straight out of the container but it tasted

some polatoes.

thumbs-up

too far off-from what you get in a restailrant, and you're paying a lotiless at a had to eat this to survive it dicertainly be far from agonizing. Ethink eating diday after day would get a bit old in a humy, but I certain iv wouldn't passit up & Ewere desperate for todal (fix were to also end bit) with some

ers with these as nots diperview

At First Bite: Good, A. I., e greasy and

nice drackers to but this on, who knows, may be holding TEOTWAWK isocialirms.

At First Bite: Was pleasantly surprised

The meal was lender and not too salty.

There were tiny bits of shell but that site

) Diveratik People náv česučíhoo čindis. to crack through shells to get to this stuff

Heated up it was pretty tasty. With some

drawit buffer It really wouldn't have been.

be expected.

Overall: I guess the true question you should be asking is. Would leat any of think. Ye ever had canned comed beef hash so was anxious to this Servec coldiff was dutte good, and warmed rip, even better You could mix this with all kinds of things to improve it as well. heese eags, sauce sandwich (ii. 10) etc. This would be a great food sour le during tough times that's appetizing and receptive to this one as well. Next to the chicken I'd have to say this was my second favorite and would eat it on a regular basis

safty but the polatoes viere nice and Irm.

these by choice" For this a big ves a don't nutritious l'd imagine kids would become

At First Bite: O rect from the cart the crab meat is soaked in a sciffy brine and s hak yun texture.

Overall: The crabbs dear canned from the leftover parts from oxiger, moledestrable pieces, ithe flavor has a siight. chemical taste that is reminiscent of the smell of a brand new pair of Nikes, oddfy enough, if you think that sounds strange. try altaste of this crab! Overbooking the chemical taste, disay that its something that localid five off of Given repeated servings, I could get used to it.

At First Bite: Everything you need in one ca

Overall: Clearly better if it were needed up on a skille. The corned beef hash is a ratiof a cheat in this fest since it contains. both beef and potatoes it's got every thing a hungry survivalist needs to be satisfied. Eaten cold, it is chunky, but still very palatable. Some Tabasco would put this selection over the top.

At First Bite: Helio, high blood presture. Meet deviled ham spread.

Overall: This was essentially a really alty pate that a good one nonetheress at of the can, it tasted like a decent eat paste However there's reafly not whose of in each timy can so you di ave to either buy a ton to have enough. istenance or use it as a havor enhancer or other foods. You could spread it an-CKERS IT IS IT IN E tall giver the a recitioned ryserst, mask the molrks squs to tayon

At First Bite: A little sality but cretty tecept

Overall: it's definitely no Easter ham in erms of flavor, so don't expect it to be sweet or smoky Out of the care ts not a had way to go, and the meat was most Even though the contents take up the entire can the can itself is so small its only worth about one serving of food for an adult male, i définitely wouldn't passithis up though: it's pretty tasty and versuthe finished the can with no complaints. Warmed up it's even better

) At First Bite: If a safty meat spread

Overall: The flavor sn't bag but it's very salty. I wouldn't attempt eating this träight uniess tis all had dio think if's partect to spread onto-crackers or accompany flavoriess foods such as nee-Heating thip might increase its appeal The can has a puritableap and is smaller than a hockey buck, which makes it easy to stow

limal for long-terms for a management, soo Tuni

allens, a weeklijn bypreod the aluminum contact







At First Bite: Chewing one right but of the can was like taking a bite lut of the ocean Mark this one inder "poor life choices."

Overall: Don't get me wrong, love ysters. When shucked and served with lemon, vinegar, a dash of cooktar sauce, horseradish and some Tabatio fresh dysters are one of the most de ectable foods on the planet this briny, boxed version was not in fact, it was a complete and lutter mistake Even after i breaded and deep-fried it, the canned dysters still tasted like the Pacific Ocean took a dump in my mouth, if , ever were holed up in my compound with the world crumbling around me, would never eat this again Instead "ditry to use it as bart, though I'm not sare. "dicatch anything but cockroaches with t

) At First Bite: Ewww. nastyl

Overall: I haven't felt this grossed but since watched Hostel Oysters are something I ve a ways hated Freshly shucked with all-the fixings. sistly something cavoid. This was a gagger alright Could barely get the first one down and couldn't bring myself to limish the rest for fear of a reversar* About the only way! could down these is either with a strong. haser, dipped in batter and deep fried, or used in some kind of stew to mask the flavor I'm sure others would happily and easily down a canof these with no problem but limingt arie of those people with the necessary acquired taste. Perhaps they di be better used as bait onum, or purishment for a misbehaving child since castor oil is out of voque now.

At First Bite: Cracking the can open was a pretty horrifying expenence Why does this even exist?

Overall: If you enjoy eating what poks like the spawn of the Alien queen, then this is the climed meat for you. Add to that the sensation of an ocean-soaked sponge unleasing its safty brine in your mouth and you get an inking of what its like to have this side down your throat. I hat sail I have to say about that.

At First Bite. Tasted Keichicken - if by chicken I meant dired meat packed into small chunks and renydrated by bathing It in salt wate. But, yeah, I tastes Keithe real dea.

Overall: makuge fan of fried hicken, chicken wings, breaded rbicken, chicken breast, popcom micken, and pretty much anything erivative of this type of pourtry, so ny opinion was a little skewed as really hoping it wourd be bet er likhow, know, ts from a canon't get me wrong, it tastes fine ind, you can eat this cold from the an, heated up, with a sandwich, or ixed in with other dishes, so it's cite versatile in a disaster scenario, be a happy ittle survivalist if is were the only ration left in the ntry

) At First Bite-It reminded me of eating Thanksgiving, effovers, Tastyl

Overall: This is my pick of the litter. The meat was moist and flavorful. There are a million different things you can do to jazz it up, but eating this by itself out of the can was definitely good. There are piently of nutrimits, but my only compilant is that theres really only about one serving worth of meat mide. It's chunky and not shredded, so it doesn't really flup the can. You'd have to get a lot of these if you wanted something good mat would ast for a while I may start buying this as a viable alternative to cold cuts for sandwiches.

At First Bite: Let's just call this Tuna of the Land

Overall: At first bite, a thought for a split second that this chicken was tuna. Maybe it sibecause it comes in a can, swimming in salted water final said, i have to say that it is exactly as advertised. Linike most of the other meats in this taste test (and the nuggets, late for lunch today), the meat here is clearly made if real chunks of chicken breast it's a bit dry, but still makes for some good eats.

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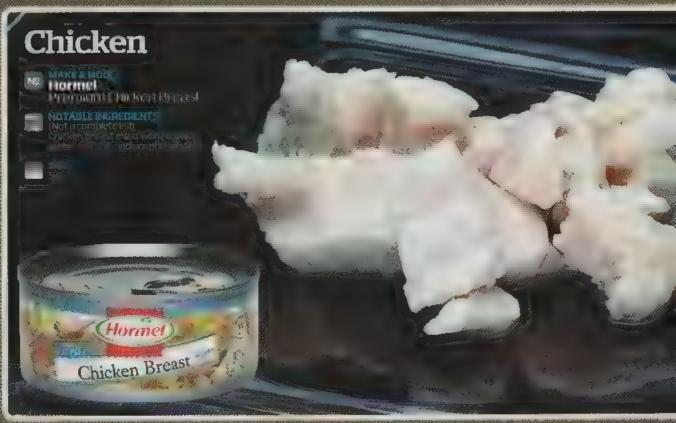














have a family. Be aware that Tamiffu is most effective when taken within 48 hours of initial symptoms. Tamiffu still requires a prescription, but if you have some eft over from a previous prescription, hold onto it. The shelf life when stored properly

at room temperature, has been tested, and the drugs show it to be effective even six years after the stated manufacturer's expiration date

Fending Off Fungi: When dealing with severe fungal infections, having Fluconagole (also known as Diffucian) in your arsenal is a must. This anti-fungal medicine is used to cure a wide range of fungal diseases, such as those you might find in soil I ke coccidio domycosis ("valley fever"). For the female preppers out there. Fluconazole is also highly effective in treating yeast infections, but is unfortunately completely neffective in getting your male counterparts to put the to let it seat down after use

Bacteria Buster- Due to the vast assortment of pacteria. there is not one omnipotent antibiotic that can kill all of them. so deciding amongst the gamut of available antibiotics used to treat bacteria can be daunting. Maintaining a selection of a few antiblotics that overlap in treatment targets will ensure that you have most of your bases covered (see the table below).

		Fish Bring Sparaden	
_			> Anthrax
Clindamycin	N/A	Fish Cm	Dental, bone, and joint infections
) Tetanus
Ampleillin			> Ear infection
	N/A	Fish Culin) Strep throat
) Used as a general purpose antibiotic
Ciprofloxacia			> Anthrax
	Стрго	Fish Flox) Respiratory infections
) Urinary tract infections
Trimethoprim/ sulfamethoxazole	Bactrim	Fish Sulfa) Gastro intestina infection
) Pneumonia
			> Orlnary Tract Infection
Metronidazole	Flagyl	Fish Zole) Grandia
			> Helicobacter infections
Doxycycline	N/A	Fish Doxy	> Anibrax
) Lyme disease
			> Malaria
			> Pneumonia

ut Racter

Tap water generally has a shelf life of six months Afterward, its chlorine additives begin to dissipate and bacteria and algae start to grow

2) Mobile phones have 18 times more bacteria than toilet handler

3) Bacteria cells in the human body outnumber hu man cells 10 to 1

> The use of antibiotics must not be abused and should be kept to a minimum if at all possible Misuse of these drugs can create resistant strains of bacteria that are untreatable. and highly lethal. Thus, if you decide to amass a cache of antibiotics, you must be thorough in researching the appropriate use and dosage for each specific antibody Since. normal antibiotics can only be acquired through prescription, acquiring them can be difficult if you're not actually sick. Antibiotics in powder or tablet form are available without prescription for fish and aquatic life through commercial vendors. While you might not have seales and fins and these antibiotics might not have been manufactured for human use, sustainable offigrid survival can sometimes depend on obtaining such medications in any shape or form

> Preparing for microbial organisms may not be on top of your list when planning for SHTF situations, but overlooking them can have truly fatal consequences. By practicing proper sanitation procedures and using the right medicines for specific infections, your body can focus its physical resources. on the grueing task of surviving any disaster it faces. But be aware theres still no known cure for zomble infections. \$\$

About The Author:

Curt Lang studied microbiology and molecular genetics and is currently doing research to improve treatment for patients with brain and neural cancer. When not experimenting in the laboratory he is an avid triath. lete, photographer and outdoor adventurer He's spent countless hours honing his survival st skills.





Fungl: Another infectious organism that can be read ify found among us is fungus which includes yeast and moid fungus can be multice luiar as we las unicellular Some fung produce spores that can trave in

the air for long distances and remain alive for several years until prime conditions allow them to grow. These proper ties make it tough to completely eradicate spores from a dedicated area. Most fungiliwir not cause bod ly harm and some are used to make delicious good es like God's gift to the world, been however there are a few that can be detrimental to your health if you aren't prepared to treat it.

Equals a Pound of Cure

The best way to deal with all these germs is prevention and one effective method is to block the routes of transmission. Because the spread of the germs may come from inhalation, ingestion, and direct contact, here are some precautions to consider.

Sanitize: One of the most important steps in prevention involves cleaning all areas where you live, work, or hole up in Maintaining a sanifized environment not only minimizes the numbers of microbes around, it also reduces the amount of habitable areas that can become a breeding ground for germs

Surfaces can be scrubbed down with a solution of bleach (which contains chloring, a highly effective germic callagent), if you are using normal household bleach, which is normally between 5.25 and 8.25 percent chloring a mixture of 1 cup of household bleach with 5 gallons of water should be effective in kuling bacteria and viruses. For areas where you



Alcohol is flammable, so more precautions must be taken around open flames. > suspect a mood infestation it is recommended to use a ratio of 1 cup of household bleach to 1 galion of water. The use of a 70-percent solution of a coholias a germicidal agent is also a recommended alternative, though the downside is its higher cost compared to bleach. Plus alcohol is flammable so more precautions must be taken around open flames.



Sterilize: Speaking of a cohor a key advantage (other than turning you into the life of the party) is that it can be used to sterilize any scrapes and cuts on your body. When dealing with any break of the skin and vasculature.

ts essential to maintain sterility around a wound and to prevent germs from entering the blood system. Likewise, you should consider stocking antibiotic continents and antiseptic creams in your first aid kits, which you should have at home, in your car, at work, in your bug-out bag, and stashed in your fallout sheller.



Protecting

nose, and

lungs can

vour mouth.

be crucial to

your overall

survival in

a disaster situation.

Gear Up: Handling and contact of blood from another person should be done while wearing protective gear if available, such as gloves and face mask, if no protective gear is available, then take extra precautions to avoid

direct exchange of blood with any open cults and wounds that you may currently have. Covering your mouth and nose with a towe or shirt will be piprevent larger droplets from entering your respiratory system. Several dangerous viral diseases are spread through infected blood, such as hepatitis. B. hepatitis. C., and HIV.

Protective gear isn't just for handling blood. Lower respiratory infection is the fourth leading cause of death in the world so protecting your mouth, nose and ungsidence be crucial to your overall survival in a disaster situation. Simple suigical masks or painting respirators can provide some degree of protection for non-infected users. Conversely they can impede the spread of germs by preventing an infected person from releasing aerosols of infected particles into the air. Keep in mind that these basic masks aren't specifically designed to protect the wearer from Inhalling pathogens.

that task is usually reserved for specialized respirators, which can be commercially purchased. If nothing else, having everyone in your group of survivors wear masks might just help ease the eye strain of having to look at your less aesthetically pleasing teammates.



Cook and Filter: Ingestion of microbes can be prevented by cooking all meats and vegetables to a temperature of 165 degrees Fahrenheit, which should kill any bugs in your food. When eating fresh fruits and vegetables, make sure they are washed thoroughly with clean water (See "Pick Your Poison in OFFGRIDs Fail 2014 issue for more info

During times of strife, clean water might not be read by available. However, boiling your water before use and mplementing commercially available water sterlizers and treatment tablets, which every survivalist should have on hand, can kill most of the germs in questionable water. Some sterlizers work through filtration, while others use ultraiville of light to kill the waterborne germs. Another option would be to sanitize your water for consumption using bleach. This treatment involves adding 1 teaspoon of bleach to every 5 qailons of water making sure the bleach is mixed evenly, and letting it stand for an hour before use.



Vaccinations: The simple task of staying updated with your vaccinations can give you allifetime or minunity from several nastly diseases. Most vaccines are administered at an early age and require no further inoculations after the initial one. That

Cook all meats and vegetables to a temperature of 165 degrees Fahrenheit. being said the key vaccination for survival state maintain is the tetanus vaccination. Retaining tetanus immunity requires booster shots every 10 years during adulthood. Tetanus is a bacterium that releases a neurological toxin (one form is more commonly known as Botox, a friend to many a Hollywood stary that causes muscle spasms, ockjaw and breathing problems. Due to tetanus growing favorably in ron when it oxidizes, the threat of accidental infection is higher around rusty objects. When you're bugging out, watch out for haifs in old fences, metalic debris on the ground, and rundown railings in humid conditions.

treaton

No matter how we you try to avoid infection, these pests will inevitably find their way inside your body. Luckly our immune system is not alone in this fight science has been able to create several drugs that target these intruders.

There are several antiviral drugs, but only one is really relevant to stockpile in your bunker: Tamifu. Fighting Flus: There are several anti-viral drugs, but to date only one is really relevant to stockpile in your bunker lamiful (oseitamivir phosphate). This drug is designed to fight influenza type Aland type B, both of which can pack a mighty punch that can knock you off your feet for a few days in fact, influenza can be ethall to the young, the old, and those who have compromised immune systems. Tamiful can be used to alleviate or helpic ear this virus out of your system, so it would be wise to have it on hand if your

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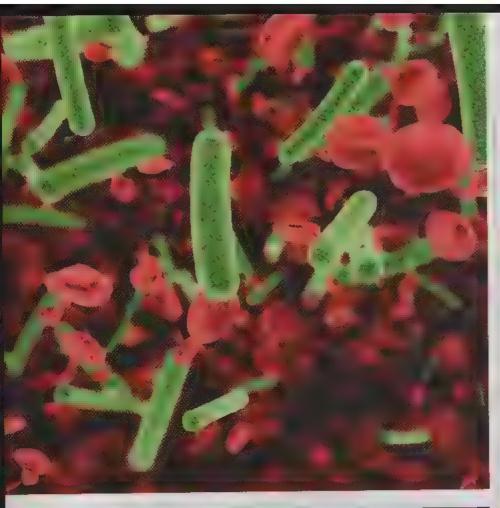




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Learn How to Fend Off These Microscopic
Marauders at Home on it Your Bunker

By Curt Lang

WARNING!

Selfie and selfie and



Little do you know that there's an entire army of maraud ers just waiting for the right opportunity to burst in, take over, and ultimately destroy you — and you'll never spot them coming "impossible," you say "I have thermal scopes, in ght vision goggles, and surveillance cameras all over my compound." Yes, but do you have a microscope?

M crobes are single-cell or multiceliu ar organisms — think bacteria, viruses, protozoa, etc.—that are mostly invisible to the human eye and amazingly resilient. While many of them are essential for both biodiversity and individual numan health, there are piently of microbes that are deadly pathogens. Prepping for these invisible invaders should be an essential part of anyone's emergency response plan and survivals agenda.

Microscopic Marauders

These little buggers can cause slight irritations, or manifest themselves into fata, conditions. Their side effects are as diverse as their types. Here are the most common pathogens.



Bacteria: These single-ce ed organisms are found all over Earth even in the most treach erous places, such as therma hot springs and your mother-in aw's meatical Amazing yithere are 10 times more bacterial cers.

than there are numanicells in your body. There are more than 500 different types of bacteria in our digestive system alone, and they neip digest food, keep the intestines healthy and possibly even boost our immunity. Bacteria play an essential part in the chain of life However several strains of bacteria are highly pathogenic and can evade or overwhelm our immune system, wreaking havoc on our health.



Viruses: Unlike bacteria, these microbes don't possess all the machinery to replicate them selves (some scientists consider them non lying) thus they require a hosticel to infect. They hack the hosticells machinery

to make copies of themselves. Due to its dependence on a host to replicate alving particle in blood or mucus cannot survive or along time outside of the body or on common surfaces such as the floor. Many viruses require close contact or the physical exchange of bodily fluids to spread such as H₂V and the current attent on grabber Ebbia.

CONDITION

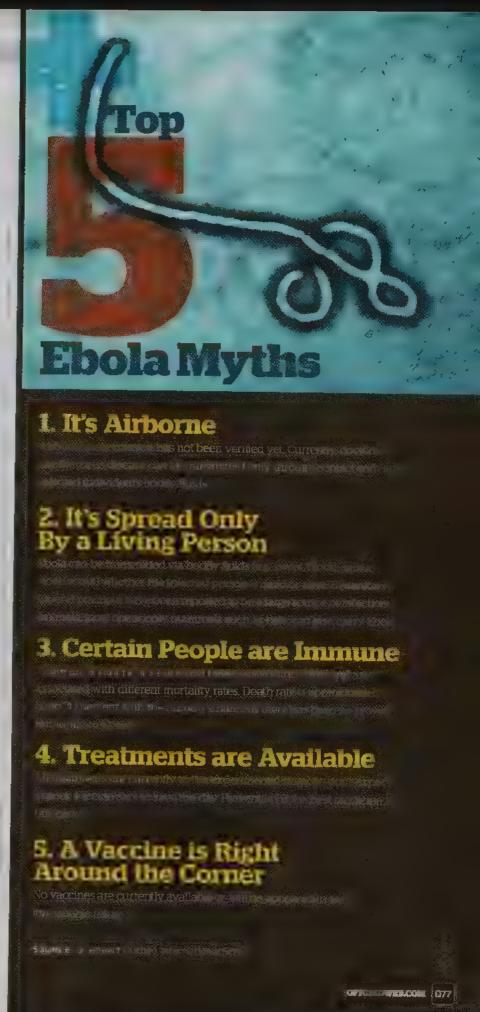
Seek Ald: If you or a member of your party becomes sick or injured while traveling, see a doctor right away. How sick should you be before you go? Exhibiting fluilike symptoms, persistent diarrhea, urinary problems, your ting, jaundice, genital infections, or skin rashes are obvious warning signs if the nature of the injury causes an open wound clean it immediately to reduce the risk of infection and seek qualified medical help. Assume and treat these situations as if they're an emergency

The accessibility of medical attention may also be hampered by your situation if you are on a flight or cruise ship tell a crewmember as soon as possible and do not refuse a request to wear a surgical mask to cover your mouth and nose if instructed to do so in other lives may potentially be at risk. Remember, the longer you just wait and hope for the best, the worse your condition may get, and it may begin to affect people around you. Don't be cavairer with your health. The sooner you act, the better your chances are

Stay Caim: If you we received word of a disease outbreak in your area, panic is the purveyor of bad judgment. For instance, a malaria outbreak is a senous situation however malaria is spread through mosquito bites and is not airborne or contagious through direct human contact. Therefore, basic precautions — long clothing, insect repellant, staying indoors, etc.— are the best ways to deal with this type of problem until your eave the affected area.

Outbreak Defense: For diseases that are highly contagious, such as Ebola, your ability to remain safe is contingent on several things. "The first thing you should do upon hearing news of an infectious disease outbreak is to verify it. Theres a lot of fiction out there and not allot of fact," says Dr. Robert Quigley, regional medical director and senior vice president of medical assistance for international SOS, "Learn about the mode of transmission and learn what you need to do to mitigate your risk. If it's a serious enough outbreak, you've got to decide what you need to do to get out of town. Companies should have plans in place to protect and support their workforce, and they can be adapted to wherever the location might be and whatever the incident might be."

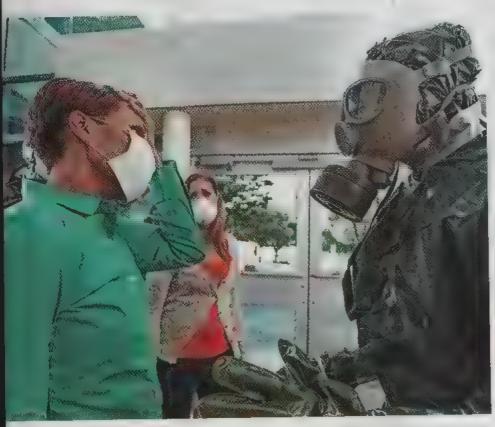
"At this moment in time Eboia is only transmitted by contact with an infected individual's bodify fluids, whether they re dead or alive." Quigley adds "Bodify fluids include sweat, stool salival blood and vomit. Eboia is robust and can survive on surfaces, so it's possible you could put your hand down on a surface an infected individual had previously touched, even as long as 48 hours earlier and then you put your hands in your mouth and you do get infected that



CONDITION

way Whether it's Ebola or not a ways practice universal precautions of mygiene and wash your hands when you visit public places, don't put your hands in your mouth, and cover your mouth when you sneeze. We tend to take for granted what's getting people into trouble."

Infected?: f you feel you've come in contact with Eboua or a disease that is also dangerous and or easily communicable, the first thing you should do is report it to your local public nea th department so it can be managed. That organization will direct you where to go, because not all hospitals are eguipped to deal with all diseases and conditions, "That first phone call is critical because flyou are symptomatic and have been to West Africa or exposed to someone who has been there where the disease is prevalent, if you go into a communal area you could spread the disease" says Quigley From that first phone call there needs to be a response plan that would limit the ikelihood that you would expose any one eise. That would be orchestrated by the local depart. ment of health. The CDC may not have a lot of jurisdiction. or presence in your location, but you may have to make an overseas phone call as well and report your condition. You would want to have access to our healthcare system so they could support you and manage your complications, since there are no specific medications for a condition like Ebola"



Top 5 Most Common Travel-Related Diseases

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Diarmea: This is

2) Skin Disorders: Not a cliserse

Mineral Rouge Fevers of the Control of the Control

Show the remarkant Photosome Section of the Commence of the Co

Returning Home

When you return home, do not assume your diseases have your traveling party is now in the clear. Many diseases have noubation periods that could last indefinitely, so if you become sick upon your return you may have become infected with an illness that didn't manifest symptoms during your trip, if you begin feeling sick upon your return, immediately seek medical attention and give your doctor full disclosure on where you were, for now long and what you did, no matter how embarrassing it might be The only way to determine and treat what you might have is to be honest.

flyou have spent more than three months traveling in a developing country, the WHO recommends scheduling a medical examination. Travelers who suffer from a chronic disease such as heart problems or diabetes should also be seen for a thorough checkup to avoid any additional complications after returning from a trip.

Be conscientious about your health and don't become complacent, hoping any in effects will just go away by them serves. Time is of the essence. Be prepared, be aiert, and be educated. Your best offense is a good defense.

SOURCES

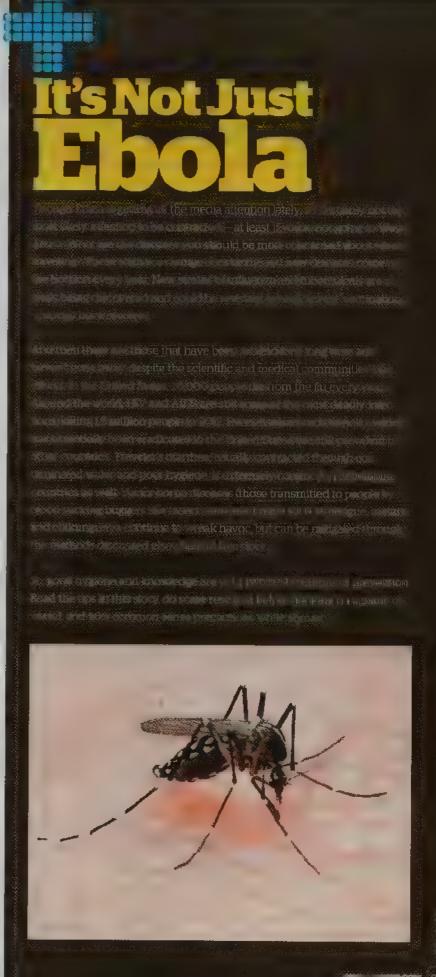
Centers for Disease Control and Prevention > www.cdr.gov International 505 > www.internationalsos.com U.S. State Department > www.state.gov World Health Organization > www.who.int Analysis: A realistic assessment of your general health and ability to travel should also be addressed. Diet and exercise create a healthy immune system iso practice those basics regularly. If you or someone you're with is pregnant, you ig or old with a less-toierant immune system, or whose overal health is weakened by a preex sung condition, all these factors should determine whether your travel is a wile decision of should be postponed if it's non essent all tis recommended that you and anyone traveling with you visit their regular doctor at least four to eight weeks prior to departing Get althorough checkup and seek advice about possible risks, required or recommended vaccinations and boosters, and other considerations to make

Coverage: If you have medical insurance, a careful evaluation of your travel coverage is necessary. Travel insurance alone might not cover medical issues, so if you have insurance of that type, review the policy's stipulations. No matter if you are headed to Toronto or Imbuktu, consult your medical insurance company about travel exclusions. Even things such as a car accident or laceration requiring stitches may not automaucally be covered when if aveing abroad

Learn what your pian offers as far as emergency evacuation, medical care abroad, network locations, presuithor zation for treatment, coverage for those with underlying medical conditions, and what activities might be considered high-risk (such as mountain biking) and possibly not covered. You may want to upgrade your coverage during usavel periods if you discover there are more exclusions than you are comfortable with if you're traveling on behalf of your company, abide by their policies and educate yourself on the care they offer their employees during emergencies on business trips



Reconnaissance: Take the time chocate 24 hour, physic an backed emergency, medical services near your region of travel. Also, finding U.S. embassies, consulates and diplomatic missions ocated in your destination is a valuable commodity. Carry contact information (phone numbers and addresses) for these services with you during your trave Leaving an itinerary listing where you't be during specific.



dates with someone at home, such as another family member during your time abroad can also be a ifesaver flyou are stranded or unable to communicate during a certain portion of your trip, it will be easier to locate you and coordinate help.

Sign Up: Trave ers can also register with the US Depart ment of State and companies such as international SQS, an organization that provides medical assistance international healthcare, and security services. This registration can allow you to record information about your trip so you can receive travel alerts during your stay or a representative can contact and assist you in an emergency

Backups: f you are dependent on medications, pack ing extra for your trip is advisable. You never know if these medications are available at your destination or if they could be tainted. Many organizations recommend. carrying a medical kit. The contents of these kits vary depending on the destination and individual needs, and may require author zation from a physician (and other parties) if certain prescription medication or other speclaim ty items must be carried, such as syringes. The WHO provides a 1st of recommended contents by visiting www.who.nt/ith/precal.tions/medical.kit/en/

Arriving at Your Destination

Hyglene: This factor is of utmost importance, especially when traveling Requiarly washing your hands can mean the difference between getting sick and having a safe trip Be conscientious of how your own health may affect others cover your mouth when you cough or sneeze. Hand san! tizer with a 60-percent or greater a cohol content is another. great carry item if soap and water is unavailable. Thinking of going outside? Particularly in tropical areas where insects carry infectious diseases like maiarral wearing insect repelant is imperative. Keeping windows closed or we iscreened can also prevent insect bites.

Food and Water: Low health standards for water and dining establishments may also be inherent to your area of travel. The CDC has country-specific tips for your destination that pertain to food and water standards. In developing countries, drinking bottled water or other carbonated drinks in cans or bottles may be preferable to drinking anything from the tap or fountain drinks with ice. Brushing teeth with bottled water is also advisable over tap water. Make sure any food you eat is well cooked. Any fruits or vegetables should be washed in clean water or peeled before eating. Eating



salads as well as consuming unpasteurized dairy products is often discouraged. Do not eat what is frequently referred to as "bush meat" It can often be wild anima's such as bats. or monkeys that are notor, ous disease carriers regardless of how well they re cooked. Food from street vendors is a sonot a good idea.

Risk Management: As a ways, pay attention to local gustoms and laws, and be respectful. Taking risks such as drinking too much a cohol also increases your willingness. to engage in risky behavior. Become educated about your trave destinations infrastructure and problems that you may encounter For Instance, all cabs may look alike but some may not be legit mate and could result in robbenes. or worse Familianzing yourself with reliable transportation methods as well as staying in a reputable hote in a safe area. are considerations that are overlooked all too often



BEYOND THE BASICS

Critical Supplies / Gear you need for:

- Emergency Preparedness
- Medical Responsiveness
- Tactical Defense
- · Self Reliance



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Comparished Food.



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I just stay in the hotal room and order room I just stay in the house recommon contact with home, or avoid contact with what if that hotel room is on a cruising and you.

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Yeah, right, You need to get food a

solldated important tips to put you

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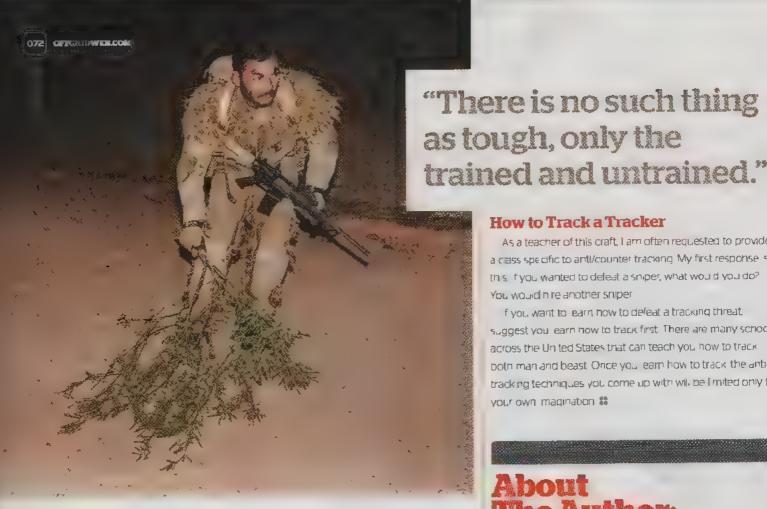
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How Joe Moves

oe's movement is determined by two main consider. ations, speed and security me moves only as fast as he can clear every covered and concealed position in front of him Without the assurance that his next step is safe, he cannot proceed any further

He has certain benchmarks to reach within his bug-out timeline, so efficiency and safety is key here. A trained tracker is sensitive to his environment Loe's senses of vision scent, sound, touch and taste are aligned with his intuition. meaning that he senses more than most people because he has been trained to

"Look, listen, and smell before you move, Joe."

Loe will uit mately survive the initial fallout of this disaster and will do so without compromising his long-term survival ocation, He will thrive as a good student of his teachers. He will monitor every piece of dirt that yields a footprint in the immediate violnity of the basecamp, giving early warning of possible threats. If needed, he will also track high protein meat and ploy.de for his people

entra e a 3 LyS following

How to Track a Tracker

As a teacher of this craft, I am often requested to provide a class specific to anti/counter tracking. My first response is this, if you wanted to defeat a shiper, what would you do? You would hire another shiper

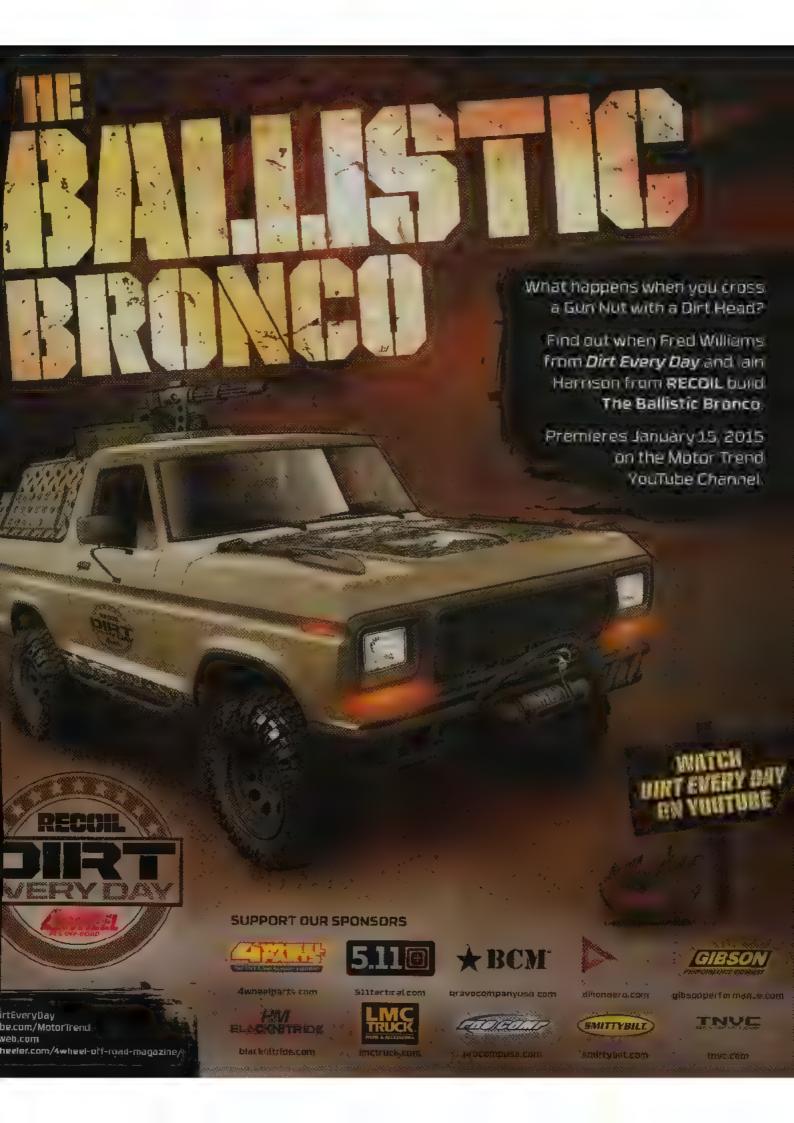
flyou want to earn how to defeat a tracking threat, suggest you earn how to track first. There are many schools across the United States that can teach you how to track both man and beast. Once you learn how to track the antitracking techniques you come up with will be limited only by your own magination #

About The Author:

Freddy Osuna is the owner and primary teacher at Greenside Training I LC of Benson, Arizona As a former USMC infantry squad leader and scout sniper, chief scout, Osuna is now providing some of the most innovative tracking training in the United States. His résume includes being lead instructor for the U.S. Army Combal Trackers Course at Fort Huachic and serving as combat tracking subject matter expert for the USMC's 2nd Marine Division

Greenside Training provides training to military and law enforcement agencies worldwide and will be providing courses open to all in Southern Arizona through out 2015. Osuna and Jon Boyd are the authors of Index Tracking: Essentia. Guide to Tra.ling Man and Beast Osuna is now writing his second book that he promises will change the way people view tracking in America (release scheduled for summer 2015), Greensides goal to lead you to discover an awareness of your world you never thought possible, then weaponize it on the battle field the streets, a hunt, or in the boardroom

Go to www.greensidetraining.com for more info





Joe will move quickly by ATV, but leave and by ous frail Bellause of this fact, he will go in distance away from his starting point as swiftly as possible. Once at a safe distance he will button nook in noving into a position from a 90 disprediangle and their back out from the direction he carrier and cache the ATV in the thickest inastiest terrain he can find. Then he will brush out the vehicle tracks for a nonsiderable amount of distance. Write he's brushing out thicks he will wear loot novembles that hide his tread puttern and give the rusion of aged tracks if anything acall. Now he's on foot and has significantly reduced his signature and gained vital agity

Where Joe's Going

During preparation you must thoroughly analyze the ter rulinaturic your pugitiving a larger field expess way to dictins is by going there is advanced tiefore disaster strikes, to hike your chosen route by loot taking thorough notes along the way of key terrain leatures that you may be able to use for rest observation ambush communication of the rache's upplies.

"Do your homework, Joe. It's the hard right versus the easy wrong."

How might a hostile tracker use these key terrain features against you. How much concealment dives this route provide while moving during the day? Are there sign cant obstacles on your route that work for or against you?

oe has learned the habits of nor tilinal and diurnal creal tures along this outle because these creatures will display behavior that a tracker reliats to anticipate daligner Heliwish is set the ground type to fills advantage. When teas big heliwish to their despot frais instead of on them indiche will walk on rocky ground it stell along soft. So their will walk on water along streams when available, he will be attentive to every step the takes, because he knows it only takes one potprint for a good tracker to determine it yours his prey

"Time to bodgie, Joe," says the familiar voice in your head immediately you communicate with your loved ones not at home via text message and leave a secret visual marker at the front of your residence. It this lets your clan know to be gin the primary bug-out time the you've all memorized and practiced. And you've taught them to acknow edge these messages with a pre-designated response.

Bug-Out Timeline

Bug-out Movement point to Observation signal observation pointto to initial to hole up Hole upsite movement site to rally point point basecamp 4 hours 2 hours 2 hours 1 hour 1hour

As planned, the time ine begins upon acknowledgment of the signal. You figured it would take one hour to get your supplies and leave the house. You planned for three alternate modes of travel: 2WD yell ale on roads. AT / by

backcountry traits, and on foot through sole-busting brush. Due to the nature of the disaster at hand (near complete awlessness) you determine that the path of least human interaction is best and decide to go off-road immediately. Your house backs up to state land, which is a vast desert terrain with minima. 2WD access.

So, at hour one, you have your ATV loaded up and out of the garage in a hurry. As you'r de away, you hear distant gunfire from multiple, arge caliber fully automatic infles, which you estimate is down the street from your home. "They re too late" you chuckle as you open up the throft e

But then you slow down, remembering the tracks you are leaving behind. "Complacency kills," the voice says. You need the collective wisdom of all the teachers and mentors you've had in the life and know that you must begin anti-uracking immediately. If those guin toting opportunists come across your tracks a day or even a week from now and are able to follow them, you might compromise your camp's position and the safety of all who are she tered there.

Ninja Escape and Evasion

Antitracking methods are used to confuse delay and dissuade a threat whois pursuing you. These are passive measures that are to be employed constantly wherever





you training the discovered in easily followed it would be disastrous fram the indney time and sweated ty you put into preparing for a successful bug out were wasted because you were too easily tracked.

in this story's opening scenario, our hero, line has a total weight (ATV included, of about 900 pounds, translating to a lot of destruction on the ground and deep definable tread patterns. His boots are a non-typical high quality hiking boot with an uncommon tread pattern supporting his 80-pound frame, which shoulders 100 pounds of kit. From his method of transport to his fnotwear selection he has clear target in dicators lie anything a mail does or fails to us which reveus his presence to the enemy) that are unique to him and dashy dentifiable to even the most novice trackers. So what does one do when faced with the situation of needing to be somewhere his pecific vitine, while trying the total or wedking the line specific vitine, while trying the total or or has a total wedking the line is the crying the color wedking the results of the pecific vitine, while trying the crying the color wedking the crying the

I share some considerations that will always apply to any situation in which your trained to deal to your undoing and how our hero look has been trained to deal with them. There are three factors of priority in relation to minimizing your signature on the ground points.

What you're Where you're How you're taking going moving

What Joe Takes

ability to trave fast and ight upon emergency evacuation if you have a tracker on your trail who knows what he's doing then fast and light is what you are going to need to be Alabatic tacker can leduce now fast you emilying a ruestinate how far you can move within all yer it metrame to determine where you may be. Think Tommy Lee Joiles huilting for fugitives.)

"Damn it, Joe! Ounces equal pounds, and pounds equal pain."

Traveling ight lift inds you agitty. And having agiltly a finds you the chiltly to take the route of most resistance which is counterint. It we to what most people want to do during a bag out situation. By doing this, you will severely hamper a tracker's ability to unlike pace where you're going You will use torce him to go through the same terrain, which he may not be prepared for in nigolaround and attempt to pick up your trail further ahead. Which can be altall task attimes

Prepare for the unpredictable, and gear up for what lies ahead. When the unthinkable happens, you'll need equipment you can vely on. From survival bags and first-aid kits, to knives, tents and outdoor tools, 12 Survivors has got your back for any situation you encounter. We Are One. We Are SURVIVORS.

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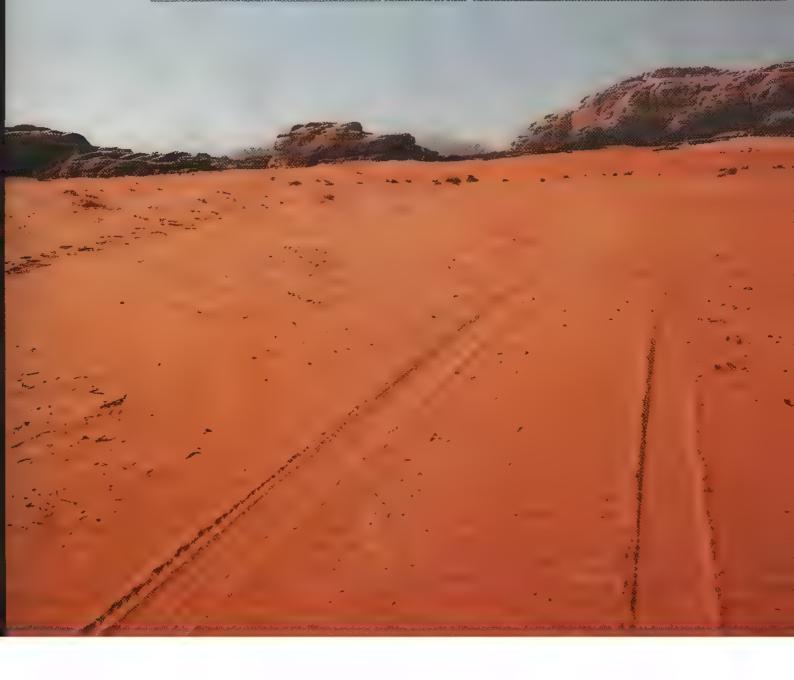


A Tactical Tracking Expert Reveals the Keys to Bugging Out Without Leaving a Trail

By Freddy Osuna Photosby Luis Chacon Photography

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bepselmas, in this and locking and vinience on emost epic shale. And its heading your way. Waiting out the impending count at the winds take feature. Assist a sector of control and the sector of contr



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SURVIVAL

Maintenance

Maintaining a snowmobile is just about the same as maintaining any other motor vehicle. Refill fluids and replace parts at regular intervals as spelled out in your owner's manual if you're not a do it yourselfer, your dealership or an independent idensed mechanic is a good way to ensure your snowmobile will be ready for when you need to bug out in a hurry However, if you intend to use your snowmobile as a bug-out vehicle. It is a good idea to learn how to get your hands dirty. Before you ride, a ways check the oil, belts, and moving mechanisms of the showmobile.

Preparing for Instant Access

Let's face it. Your decision to bug out or shelter in place is either going to be a spit second decision or allong, drawn-out process, depending on the kind of disaster and how it's presented to you if you're looking at showmobiles as a possible escape option, it means that you probably live in an area that sees a decent amount of showfall or long periods of it if that's the case, your showmobile can be primed and ready to go in a garage or shed with supplies hearby or eyen already strapped onto a sied

Even if you don't live someplace where you can zoom into the show covered woods at a moment's notice having a snowmobile ready to go on a trailer as a secondary option is a viable option too lift mells a scarce commodity, it can be quickly deployed or it can be trailered until your primary vehicle becomes unpractical **



Getting Unstuck

the an ATV on sand traversing the snow in a snowmobile is all about tinesse and knowing your machines him its But everyone at some point will get suck (1) one reason or another Maybe the incline is too steep or the snow too deep. Whatever it is you need to get out.

It's advised to not travel alone so that your partner can help you out in a bind Recovery depends on the situation, so it's not possible for us to explain now to get unstack for every situation. But here are some general pointers on how to escape if your tread has dug you in deep.

- If your snowmobile stopped while pointing up an incline, you'll want to grab the front end and turn it so it's pointing downward as much as possible.
- Pack the snow in front of the snowmobile and dig out the snow under its front end to create a cavity. This will help level out the snow with the dug in part in the rear
- Lift the reat of sled onto the uphill side if possible This is another reason why you want to travel in a group—snowmobiles are heavy.
- Steer the skis downward or toward the trail Start the engine up and give it some gas. If all goes well, you should be able to drive it out of the rul
- Once you get it moving, keep it moving. Give it enough throttle so that it's moving but not so much that it burnes itself again. Keep going and stip only when it is on a hard path or facing downhal.

Snowmobile Survival Kit

fust like driving a car anytime you take a sled cut, you run the risk of getting into an accident or having a mechanical breakdown. Snowmobile accidents are unique in that you might find yourself alone and freezing in the middle of nowhere. Here is a recommended list of gear to keep you safe, whether you're out riding for tun or bugging away from danger. This list is a good start, but you'll want to customize it to suit your particular needs

First-Aid Kit

The reasons to have one of these on hand are self explanatory. Choose a winter specific Kitif possible.

Shovel

We're dealing with snow here, so you'm ght need to dig someone out from ander an avalanche or get yourself out of a ditch

Fire-Starter Kit

This is a no brainer whether it's winter or not A fire keeps you warm while creating a visual marker for rescuers. Make sure your butable lighter waterproof matches finder, and other fire-making

toos are in a waterfight container

Food and Water

High-covergy foods are important to consume to help raise and maintain your core temperature. Peanut butter agandlabars almonds, and most trail mass are good options water is a ways good to hand.

Warm Clothing and Warming Layers

Pack a set of woo or cyrtheti, gloves Waterproof shell or ks and sweater just in case Don't forget a space blanket as well as nand and loof warmers too

Snowshoes

You want to stay with your sled if possible but in case you need to noof it to find he p, you'll want a pair of snowshoes to help you trave, a lot more efficiently

MD2/s60m

Being able to broadcas an alloio distress call via a cheap plastic whistle is priceless when you need it

Navigation Tools

A paper map, compass, and an electronic GPS unit are fantastic items to have but what will save our iffs in understanding of how to use these tools to figure out where you are and where you not dit be

Flashlight

A forch with extra batteries with explyou see at night as well as signal for help.

Spare Parts and Tools

Learn some bask
maintenance and keep an
extra drive belt a set of
spark plugs, and looks in
cose you need to make a
quick repair

Tarp and Paracord

A tarp or plastic sheet can give you some redeffrom the snowlifused as a mat or as a temporary shelter when used with some cordage.

Backpack

A good quality waterproof (or a least water resistant) backpack that can carry your gear's of upmos importance

Avalanche Beacon and Probe

Heavy snowfall presents many problems, including the possibility of availanches Availanche beacons can transmit an emergency signal even if you're trapped beneath a wall of snow Availanche probes, which are essentially long poles, can be used to find others who might be buried.



This is a must have for those looking to modify their showmobiles into a full-on bug out venicle as it's the most efficient way of hauling enough gear and food for a long term survival situation.

Discount Symboly in course that a locally it sower fund parabeols the course throughout any and other formage and the fiderate its angle that indicate its angle that indicate its angle that indicate its angle in the course and the

This switch kills the

District Heigh Reco

indercamage (in

/ Passeningue Strapie fugicionine obrazo femi Massenines los basis

Running Boards

The foot rest are ound on either side of the snowmobile Sometimes called

Ski Tip Handles

Handles found on the

Pilian This is a second of the second of the

Sin Spindle Jones and district the steerings

Track: The large

AND ASSESSMENT OF THE PARTY OF



Snowmobile Legalities Ive in and the kind of property your interest of the kind of the ki

Snowmobile Controls

On the handlebar, you I find a lever for the throttle on the right grip and a lever for the brake on the left. There is usually an emergency brake and some mode's also have a reverse gear its ignition key functions, ustick emost other motor vehicles, a lowing you to start the engine and power the lights and accessories. There's also an emergency kill switch that is usually located on top of the right handlebar

5 m arito ATVs, other powersport vehicles, and even awnmowers, there are two ways to start a mowmobile. There are ones that require you to fiddle with the fuel and air mixture through a choice control usually a knob) and the throttle to get started when do d, and there are models with electronic one touch push buttons.

Once started, snowmobiles are simple to ride. There are no gears to change just gas it to go and hold down the

brake ever to stop. Maneuvering in deep show and indines takes more experience and skill to master however.

Snowmobile Costs

Snowmobiles range from \$2000 for a decent ",sed one to more than \$15,000 for a new, performance onented sled. There are many models starting at different price points to accommodate a wide range of budgets.

orness you live in an area that is constantly covered in snow, you imost likely need a tow vehicle any traver to move it from place to piace when the white stuff isn't covering the ground Openia's trailers start at about \$500 and enclosed urailers can get into the \$3.000 range.

He mets can be purchased for about \$100 and gloves for about \$25. Winter clothing can be repurposed for snowmorbling. Just be sure it's warm and waterproof.

Yamanas SRViper M-TX LE 162 is ideal for the deep powder found at high altitudes thanks to the 2.6 inch...gson its Power Claw Track

Purpose built and equipped for use in rugged high at tude terrain, mountain snowmobiles are designed to be longer and narrower with high horsepower engines. Rid. ng through deep powder on steep terrain. requires specially designed longitual tracks. and more horsepower due to power loss. at higher elevations if you live in a densely wooded area or orila mountal i range. (Deriver comes to mind), you might

require the added power and specific design that a mountain sled brings.

Asautilitysnow mobile, the Bearcat 5000 XT from Arctic Catillan hau. heavy loads over rugged territory

Like its name impiles this is the workhorse of the snowmobile community. Utility sleds are longe: wider and heavier than other types and the well it trais with the Jy snow tilly models are often found towing work's eds This is probably the type your localisk patro uses. We like this model for its versatility and towing capabilities, Hook up a

oaded sied with your survivagear and you're good.

to go

The Yamaha SRViper X TX SE is a crossover snowmobile meaning it's versatile enough to take on well-worn transand to hit fresh snow in the undiscovered backcountry

For the rider looking for a go anywhere option, the crossover is for you. Capable of cruiting a shallow show frail or skiping. through no-man's and; its longer track and upgraded suspension are suited for a variety of terrain. The Crossover is a great choice for those looking to go on and off tra-



Snowmobiles are propered by an exposed revolving track. Be mindful to always stay clear of this track. Not only do you want to keep limbs and loose clothing out of its way, you also want to remember that while in motion the track kicks up show, rocks, and other details.

it's also important to maintain good balance for proper control. Beginner riders should be seated with feet planted on the running boards and hands on the handlebar grips. More experienced riders can use learning techniques for better vehicle control.

Safety gear such as a helmet eye protection, and warm clothes keeps you safe and comfortable while riding. As always, review your owners manual for detailed safety information.



Snowmobiles are unique venides that operate differently from most other modes of transport understanding how to safely operate them is important to using them as effective survival tocis.





Snowmobiles 101: Old Man Winter's No Match for This Vehicle

By Martin Anders

th major winter storms or ppling large areas of the United States
and Canada this season the usually mundane task of getting
yourself from one place to another has become a dangerous, and
n some cases deadly, ordeal At times transportation has ground
to a standstill eye to victous snowfall in some areas in Buffalo. New

York a recent storm reportedly dumped as much as a year's worth of snow in one week. The powder came down so guickly and heavily that it left people stranded, fending for themselves in ears, offices, and shopping centers.

With that as the backdrop, let's say a great calamity has befallen your city and it's time for you to get out. The biggest hurdle will be the impassable roads, which are a gged with both show and panicked people. Your a temative? Hit the show

Staying mobile can give you the ability to get help and supplies—or even to escape if need be. Being stranded means taking your chances with not only 0 d Man Winter but also the destructive aftermath, too. Whenever possible, we be leve in having multiple transportation options to help improve ones chances of surviva. One of the best venicles on show is

no surprise – the snowmobile It's agre on powder relatively lightweight and packs plenty of power to have assland gear

Snowmobiles are usually found in showy backwoods country or pulling emergency medical duty at skill resorts. They aren't usually found cruising Firth Avenue in Mannattan or zipping down Main Street, Anytown, USA But with the strange weather that sibeen going on the past few years, you never know when this kind of vehicle will be used for urban survival So, this feature article will walk you through the basics of snowmobiles. If you're a ready familiar with these machines, this article can serve as a review of the fundamenta.

Snowmobile Types

Just like any other mode of transportation, there are different snowmobiles made for different types of uses. Snowmobiles are divided into six major types



Often called trail models, entry level snow mobiles come equipped with engines in the 60 to 70 horsepower range. They are easy to ride and relatively inexpensive. They tend to be ightweight, but are slower and can't take on rough terrain as well as more power. full moders, if you're escaping as a clan, there are also less powerful models made with younger riders in mind

Arctic Cat's ZR 9000 Sno Pro. spowered by a turbocharged four stroke 1056cc engine that produces 177 horsepower at any a titude. It can get you out of snow covered Dodge in a flash

Think of these as the sports cars of snow mobiles. They feature more powerful en gines which generally crank out 85 or more horsepower. These sieds are heavier than the entry-level models because they have added weight from a larger engine and upgraded suspension components. Speed is key, so a performance mode, could be what you need to get out of town quickly





Touring snowmobiles are longer and can seat up to two riders. They include features. ke side mirrors, a backrest for the passenger and a larger windshield. Fourting mode's are designed for riding long distances in comfort. If you're bugging out with a loved one this mode is a good choice





the issued rooth servesionly as a wick if you don't have denature, or sopropy acoho available yo indive to use wildere flammable liquid siava able

Now pour your filtered water into a pot You can't place the portidirectly on talk in your improvised stave, as five restrict oxygen flow and extinguish the flame (a handy of the to remember wilening in need it safely put out the fire ristead position your DIY stove between two stacks or pricks or empty ammoicans) and make sure they lesightly. taler than the stove. Then place the pot atop the bricks. you're outdoors, especially in life load it's important little is cut the wind around your improvised stove in takes much langer to heat the High if you don't

Make sure you heat the water to 160 degrees Fahrenheit a temperature at which pretty in a hindigerms can survive No the indineter no priliblem see the "Temperature Test" adebar) Obviously its important to let the water copilibetore attempting to consume it And a ways be careful wherever an open flame is present and be cautious of any hot surfaces.

Conclusion

Last vikeep containers of powdered drink mix on hand like Tang H C Gatorade Emergen-C, or not cocoa Why? One it makes pond water a stella of beffer which is more palatable. F. W. I kids. Two it alous electrolytes and potassium to the ig Jid, keeping you more energized. And Lhree drinking water along could flush out necessary minerals if you're not cardle. which can be dangerous in a long-term - invival situation

Whether your avelacum releasing available liter or had to McGy ver your own from scavenged parts filtering water can make all the difference in a crisis event. But it also takes common sense and their ght attitude. Don't obtain HLO from places that are clearly contaminated with toxins

Du stay colimiand derin eative with the resources in your environmen. Title proper madset statum ist important resour at you have Sc, stay positive, adapt, and find a secur on or your become part of the arobiem 😘

About The Author:

Jim DeLozier designer of the Survivor Trucks is an a...nr. usive continuity consulant who helps people propare for anything and werything. Jim and his team design and build vehicles structures, and shellers. They a.s. train people in everything from martial aris and long range precision shorting to power generation and hydroponies, aquaponies

www.SurvivorTruck.com/consulting/



Methods of Water Disinfection

icalizate. Fill a clear plastic bottle, lay it on application of the clear plastic bottle.



Second Filtering Stage:

1. Many homes have refrigerators with built in water dispensers. Where there's a water dispenser, there's probably a water filter as well it is ally the filter is either a carbon or ceramic filter is both will work well for our needs (Coincidentally most businesses have coffee makers with either an infilme water filter or paper coffee filters.) Find the filter element and remove it. Usually it twists out of its receptable by spinning it counterclockwise. The best type has a hole in only one end

2. You will need two buckets (or some equivalent), one of which you must punch a hole in the bottom. Before you make the hole identify the size of the threaded portion of the findge's water filter — then carefully make a hole in the bottom of the bucket that slust slightly smaller than the threads of the filter.

3. Or ce that's done place the threaded portion of the fifter over the hole at diwnie applying slight downward pressure turn the fifter clockwise, allowing the fifter to thread the filling the hole in the blacket Once this has been completed take your other bucket (with no hole) and place it beneath the first one to capture the water that comes through the fitter.







4. Take the H₂O from your first filter setup and pour it into the bucket with the second filter, allowing it to flow through the caramic or carbon filter rite. Including her below you have now flered your questionable iquidity cell it should be fairly clean now but if its noticlean endurant is point repeat the process until the water is clear or nearly clear.



Treating or Heating

Once you're satisfied with the clarity of the filtered water, you can now heat it or freat it to be sure it's safe to drink.

Chemical Treatment: If you have access to regular household bleach (which you always should), you're nouck Bleach works great at treating filtered water it doesn't take much, so go easy in fact, it takes about only two draps of bleach per quart of water or eight drops per gallon, Remember, a quart is equal to four cups, so a little goes a long way. Bleach kills 999 percent of all germs, so it's very handy lodine tablets could also serve the same purpose, but household bleach is more versatile.



Temperature Test

One life-saving fact: More anisms can't survive in temperatures

You've just filtered. But just to be safe, light it up to 160 degrees, flow of
thermometer in a SHT's scenario

When the liquid to aling all hippies form on the bottom of the bottom of



Sustaining garden, and a solar panel system to then the grid goes down and still afford to pay the system to those quost is are much written down to add and not something you seed to way about yet and slowly integrale all of them into your lifest the mole this author bought a rail and so a see of six 1-gallon bottles on. He and his family a through about the and his family a through about the case of them he need seach time, until he has about the case of six 1-gallon bottles on the read his family. Through about the case of the need seach time, until he has about the case of six 1-gallon bottles on the read his family. Through about the case of the need seach time, until he has about the case of the need seach time, until he has about the case of the process of mind known.

Decause the opaque containers aren't deserted in a water are appointed to used if you can avoid if

Another thing his family did was purchase this storage. This to be used for cooking, cleaning, and bathing anges the water once at ear so it's always fresh earligh to drink in emergency. He change one drum in the spring, one in this summer of unscended was a gallons to ke

nout food, but only days without



Heat Treatment: However if you don't have bleach an hard or war it of take it to the next level, you have neat the filtered water to be extraisure it's safe to consume it you have power or a campisture in site as tister, is easy. But if you we had bugged out or are trapind away from home you'll have to create a sturk. For your map it sed heating element coils derithe folk wing.

-) Medium metalican legil philind offee can
- It quart punt can without paint residue,
- 15 mai soup car

13

) Large cerain cloffer muq

On a you've ic and you'desired mit in vised slove set that de Next grab also of to ellipaper and pullicult the cardboard's eeve in the middle with in this night he paper. No this silt a magicitric kilographic carboard insert with your fingertips while holding their and simply put the tube out of the center. Save the cardboard or all filter in use they any termical booking the cardboard or all filter in use they any termical booking to substance and the carboard or compress the torrection and lace to have the carbo tissue that those to retipaper show a validable subing.

roled up washooth or hand towe.

I will be natured all the or or 91 percent sopropy, a coholover the tissue or cloth towel and carefully light the improvised stove Be aware that the flaine might be present build not visible. The alcoholos what burns and



For the purposes of this story, we'll assume that you've practiced some common sense and found water from a relatively safe source—but you're not 100-percent sure if you should consume it. How do you know if its safe to drink? Can you cook with it or drink t?

Consuming it straight from the source is definitely not a good idea unless you want the runs a cripping liness, or worse (see "Germ Warfare" e sewhere in this issue for more on microscopic pathogens). No do jibt you't need to hiter the wet stuff, which is easier said than done if life as we know it has crumpled at our feet or gone up in a mushroom cloud. When commercially available filters aren't available, you't have to roll up your sieeves and improvise.

Filter Materials

When attempting water treatment, you'll need to first filter it through different media to remove most of the particulate matter. Sift out the larger contaminants, then the smaller, then the microscopic. Once that's completed you'll need to heat or treat the H₂O depending on available resources. Therefore you'll need to obtain some tems to repurpose for your DIY water treatment system.

Filter Media: You might not realize it, but there are Jozens of everyday items lying around that could be used to filter water. Here are some common examples.

) T shirts
) Pillow stuffing
) Towe.s
) Stockings
) Bandanas
) Fridge water filters

You could also use earthly materials too, like grave, sand, and charcoal While they're not as abundant in concrete jurigies like New York City (unless you happen to be inside a Home Depot when stuff hits the fan), they're great to use if you can find them.

Water Containers: Next yould need at least two containers that can noid Higo. Consider any of the following

) Plastic soda bottles Buckets

) Milk Jigs) Empty bleach bottles

You could even use pots or pans for one of the contain ers, but plastic works best because you can cut it or boke holes through it as needed





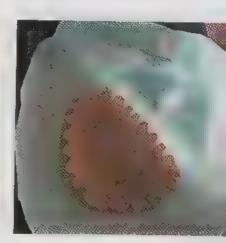
Filtering Techniques

First Filtering Stage:

- 1. Take a milk jug or large sode bottle with a cap if possible, and remove the bottom by cut ting it off carefully with a sharp knife or scassors.
- 2. If the cap is available, make a note in it by setting it on a flat surface and placing the tip of a knife on the top of the cap. And eleared by helding the cap, twist the knife around while applying pressure until you make a small hole is in the cap, place it back on the bottle and urn the openis delup.
- 3. Next, place the finest filtering element available. I ke a coffee filter an N 95 mask of tampon (see "Bloody ingenious" elsewhere in this fissue), at the bollom of the container (closest to the cap).
- **IMPROV:** If there's no coffee filter or N-95 mask handly, you can substitute paper towe s







- 4. Then take the charcoa (if available), smash timto fine pieces, and piace it inside the filter material. Cover the charcoa with about 1 nch of sand and cover the sand with about 2 inches of grave.
- IMPROV: Can't find errough grave, sand, and charcoal? Replace them with cotton balls cloth, or pillow stuffing
- 5. Slowly pour the water you've found into the improvised fitration system so as not to disrupt the filtering elements. This should eliminate most of the sediment or particulate matter and prepare us to move on to the next step of fitration.







Extreme Situations

t would be bad enough to be stranded in a bizzald but things could always be worse. What if your car your on viscurce of shelter laught, file? Or what if it shooff the roud into wors? If you relluckly enough to esclippe you rellow completely exposed to the elements and you may ever the spaking well here are two scenarios where bid turns worse, and now to deal with these dilemmas.

» Vehicle Fires

Due to the electricity and faminative follow pure, ing through your vehicle its possible that a vehicle fire could be the cause of your roadside winter distress. These firesidal accompany car crushes or hely can happen spontuneously. On the upside a fear title queries a phenomenal signal for help On the diswnside you ve probably tost most of your survival gear or didefinitely ost your shelper.

If your vehicle catches fire whits livin or due walcot sion, get away from it as quickly as you can. The automobile wontexplode as Tiviand minutes suggest but with the burning plast to the and white leating to be intenselying the fights toxic.



» Submerged Vehicles

One of the most right mains i vehicle scenarios is with your largets submerged in water i with your lift your be oved car can become your watery grave if you aide off the load into a pond inverior lake You have only seconds to each so its critical hat you contipant.



Big Mistakes to Avoid

There are some dangerous things that stranded motorists de sometimes

Les accords around about the devices considerate ordinations in derivative

dangerous missions.



» Leaving Your Engine On

If you're stuck in your vehicles subzero temperalures so that inct might be to turn on the engine to run the heater. But the exhaust pipe is partially second, the tradeoff for warmth.

could come at a disessions pose. Show mud, or white the well a blockage on the endraist system country directly carbon monoxide (CO) to flood the pendersology. Because the coloriess coloriess, and testeless. CO can build up made well and could knock your out and eventually tell you if you must be only the country to the country of the



Leaving Your Car Covered

can fall feet and furiously. If you don't work to keep with call clear. If can be to maketed in the white stuff in no time. In this survival situation, camouflage

pot on chicky. And the last their you have to be added to be a second to be a sec



Leaving Your Vehicle

Even if it's not a complete whiteout, cold weather can still take a massive toll on you gody in a short emount of time. Leaving your can belp without

human popsicle. When your vehicle, unless the to remove mounting snow from your windows and head of the class that the companies motored the class that the companies motored the class that the class th

O-HI - OFF THE WESCOW

Unfasten your seatbeit (after the vehicle has impacted the water). Make sure any passengers have done the same. Roil down only one window, preferably before the car sinks. (Because theres no guarantee your window will work after you've hit the water you's should consider having a window breaking device on your everyday-carry kin fe or somepiace easily accessible in your car) Note that once the car has beguin to sink you will not be able to open any doors untuit it completely fills with water,

due to the difference in pressure inside and out, ide the car. Take in a deep breath and climb out. Make sure everyone is out and swim to dry land. Try to get help immediately, as well clothing will lead to hypothermia in minutes during colder weather.

Conclusion

An ounce of prevention and a pound of stay-the-hel nome make a great recipe for survival when writer driving conditions are poor But if you must go out (be it for your iverihood onto flee a whole other disaster), make sure the vehicle is well stocked with tools, backups, and supplies. Actively consider what you would need to live out of that vehicle, and how you would do it. Thirow some extra food in there and some sanity savers, such as classic novels you've always wanted to read, a notepad to write journal entries on a deck of cards to pass the time.

Most important of all carry an abundance of cold-weather sieeping bags, biankets, and arctic approved outerwear And Finally, stay with the vehicle it's both your shelter and your signal for help. \$\$

About The Author:

Tim MacWelch has been a survival instructor for the past 18 years and has trained everyone from civilians to all branches of the U.S. Armed Forces the Department of Defense, Department of Justice, and the State Department. He is a public speaker on preparedness and the author of the survival books, *Prepare for Anything* and *Hunting And Gathering Survival Manual*. When he's not teaching or writing about surviva. MacWelch lives a self-reliant lifestyle with his family in Virginia.

For more, follow him on Twitter @timmacwelch or go to www.advancedsurvivaltraining.com

Safety Precautions

There are no guarantees you'll survive all winter emergencies that might happen when you're driving but there are a few things that will help improve your odds and increase your comfort. Always consider the following

- Wear a seathelt
- Drive the speed limit on dry roads, way under the limit in inciement weather
- Drive a vehicle with the highest safety ratings you can afford
- Eliminate loose objects in the vehicle cabin less they become dangerous projectnes in a crash
- Like a bug-out bag, stock up your car for winter (or Armageddon, whichever comes first)
- Bring a small bucket with a light-fitting lid and a roll of tollet paper your be glad you did after your first bathroom break

Hot Rocks



Generally speaking fire in side a vehicle is a pad thing Even if it's just a candle flame, it gobbles up oxygen and could light your blanket and clothing on fire. If you find yourself in need of warmth and fire is your only means, you can use an an cient survival technique that has many applications in the modern world hot rocks.

If you can get a fire going ourside of the vehicle, collect a few rocks from a dry location identituse rocks pulled out of water – they could explode when the steam inside builds) Leave the rocks in the fire for a few minutes, and in the meantime pull up the carpet from one spot on the vehicles floor, exposing bare metal. Use sticks or your snovel to scoop up the rocks after 15 or 20 minutes of healing and place them on the bare floor in the car. Keep bedding and fabrics away from the rocks, and bask in their warm radiance. Repeat as needed



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Prepping Your Vehicle — and Your Mindset — for Cold-Weather Survival

By Tim MacWelch

• At year affecting the cross you had made ther plans
- At a writerist and the foot who dated . — we list

Fig. 1. The secondaries as the secondaries as

Your sweet nevertide may nave the works — seat warmers FIID lights, all season firely, and tourish powers in the case it have exthings and seat that one ectually impercant?

With enace age advances in design, materials, and venice safety, driving in the winter doesn't spent as interpolating as it.

A But that's the feason to drive off-interthe strimt, as if focusing for trouble. Thousands of vehicles (both higherid and ploops) expire on the side of rood every write. And what if it's not engine trouble that jeaves you granded? What if the sugment is that pridrocked from an according tearing you and

Or perhaps volumen our of east of had a fine blow our later at might on a heart of east of the contract of the

* 1 2 h th in a dispersion shows the control of the

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Malich batween you and the winter-weather A And building post-violity par you'r need and look to lear t



Survival Supplies

» Communications

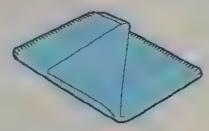
This is the first type of gear that can get you out of a roadside winter emergency. Since most people carry mobile phones these days, the only other thing you direally need is a way to recharge. it. A car charger or battery backup pack can keep your phone powered and allow you to call for assistance - providing that you have signal. Try sending a text message if calls won't connect and consider a satel ite phone for way-off grid driving (see OFFGR D's Spring 2014 issue for more on satellite phones).

For up close and personal forms of communication. like to other motorists - keep an assortment of road flares and reflective signs in the vehicle. Thirty minuteiroad flares can alert other drivers of your distress and have an added benefit of being able to start fires. Reflective signs are also handy, since flares last only so ong Get reflective signals that are arge, free standing and heavy so that the wind or vehicles won't blow them over



» Warmth

If you can't reach anyone on the phone, you may be on your own for a while First and foremost, you'r need tems for warmth Blankets, sleeping bags, parkas, and snow suits are a, acceptable forms of insulation, keep at least one item: lke this for each seat in your vehicle. This will provide shelter for each potential passenger and the driver And stay in the car in the event of a preakdown in fing diconditions. Sure, you can run the engine periodically and use the heater to warm up But this trick is not without its problems (see the *Big Mistakes to Avoid" sidebar eisewhere in this story), and should be done spanning v. The average vehicle is a surprisingly decent form. of shelter, keeping out wind and precipitation. Still: (1) make a cold tomb without warmth.



» Food and Water

Since dehydration can still happen in the cold a supply of water should be part of your vehicles winter emergency gear it can also top off a eaking radiator Most store bought drink ing water in plastic bottles are a fine choice, since they can freeze and expand without bursting. You'll also want calonies, to keep you warm and fix your hungry belly. A non-perishable food supply will deliver energy and a major mora e boost. Select high-energy food (high fat content) and don't pack, tems that Will be difficult to cat if frozen. We're a big fan of peanut nutter and crackers for food stashes like this.



» Tools

flyou're the handy sort, or ruckly enough to run into someone who is, you can use some basic vehicle tools and equipment to get you out of trouble. Consider the following items.

A neavy gauge set of jumper cables can allow another car to jump your cold cripp edbattery providing you have another vehicle that's running Consider a "jump pack" which is a portable battery. powered jump starter if you often trave lonely roads.



Handtools are also useful A hammer, a socket set some duct labe and adjustable wrenches can be ifesavers when working on yehides Keep a few sizes and types of pilers, too they're naridy if you must pull a hall from your tire, swap out your battery or mend a malfunc tion. Don't forget to bring a small shove, which is useful for many tasks, i.e. digging out your thres if you're stuck in snow



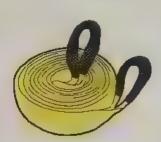
Survival Supplies

>> Tools (cant rued)

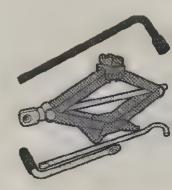
A hylon recovery strap can pulyour vehicle out of a ditch, a snow bank, or a frozen swamp, should there be a sturdy vehicle to yank on the other end. Choose a thick and heavy strap that has no metal parts, just loops on the ends. This is important because a strap can break when towing, faunching the metal hooks through windshields or at hapless bystanders. Prepare yourself for the specifics of vehicle recovery by asking an expert or researching techniques on the

The repair items can get you back on the road, Grab a conlot "for the flat" type the mending spray which can fill and seal small notes in a flat time. Add a tire plug kit for handling bigger repairs. The plug kit comes with glue, a few specialized tools, and some rubber/fiber strips, which can fill big holes in your tires tread, if you've never plugged a tire before, it's a good idea to practice on an old tire be fore you get a puncture and find yourself learning on the job at the side of a frozen road. You lineed some all to finish off the job. It's a good idea to carry a small air compressor that plugs into a venice's cigarette lighter or power port. Make sure the compressor you choose has the power to inflate your vehicles tires as air capacity and pressure requirements for car and truck tires can vary greatly. And yes, we've had to use our compressors severa, times

Your need a fire ron to break
the ug nuts loose on each
wheel and a jack to raise
and ower the vehicle for tire
changes or other repairs. A
short section of pipe can sup
over your tire iron to provide additional leverage. A gas siphon
hose and a spare jug can be
valuable, too







A first aid kit is a must lit sinot arways the car that needs a repair sometimes a passenger or driver needs to be patched up as well A good first aid kit serves many purposes, and gauze makes a great emergency fire starter

Flashights or headlamps with spare batteries, should be standard eq upment in any car it gets dark under the hood when the battery dead and night is never too far away.

A spare tire was once included with aimost every new car but today, many cars are not sold with a spare at a not even a driky little emergency tire. Whether your vehicle came with a spare or not get a full sized spare tire for emergency replacement.

Small fire extinguishers can put out small fires in a vehicle, preventing greater damage and loss. But don't try to play firefighter if you think that gasoline is involved. Get at least 50 yards away from a vehicle on fire, and stay away.















The Moment of Truth: Using Your Weapon

t may still seem unlikely that an improvised weapon would ever be used in modern compat and we certainly nope that's the case individual form and does happen in desperate situations. That's why law enforcement groups worldwide study and document improvised weaponry. Or minals on the run sometimes resort to these tactics, and the fact that armed police officers take these weapons serously shows their effectiveness.

Just as with any other type of weapon, the element of surprise can yield a major tactical advantage if you feel threatened enough to use your improvised weapon, and can get the jump on your attacker do so when possible. The astithing you want is to end up facing an armed aggressor head-on, or to end up outnumbered. Another factor to keep in mind is having a backup plan. Remember, if your primary weapon breaks, you don't want to be left defense ess. Most importantly, know when to back down and when to stay hidden.

An improvised weapon will always be a last ditch measure — one that you don't want to test out unless you absolutely have to The moral of this story is not to become a juddite and abandon modern weaponry. In fact, it is wise to embrace





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to sting and

the finest weapons the 21st century has to offer just don't become overly relant on this modern technology. You never know when you might be reduced to fighting with sticks and stones.

3 Unusual Prison Weapons

When you're cagest almost 24.7 for years on and you have not at most to purious room what existence and your death. I percent assumers offen get quite crossore when it amost is bashioning weapons. Here are three surromans types.

1) Powdered Non-Dairy Creamer Flamethrower:

Yes you read that right Society alternationalizate is an ingredient added to powdered crossner to keep a from saking it also earl become rightly flammable when it is blown links an open time. Place some creamer to a tousit paper tube, those on one end with a strighter on the other. Your, flame one

2) Chocolate Napalin, Meited chocolate shorts to the skin and is nearly impossible to get of before it scaled—tausing serious burns, a lot of oair, and possible disrightement or worse. Both a Soir kers bar for extra strik a caramet gorevines.

3) Hazor Blade Whip: The a smooth e to the end of a stick and, or the other end of the shortlack string up several team brades. There you go a razor brade whip.

Roy Ledon Tovern

WARNING!

Making and

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Projectile Weapons: These tools have better range, but are the most riskly to use. Once you've used your weapon, you're left defense ession by you reload, draw another weapon, or make your escape. However, with proper training, these weapons can be deadly included in this category are slings bows, aveins, throwing knives, and bolas.

Keep in mind that any of these categories may be combined for added effectiveness. For example, a shove pickaxe or natchet would serve as an excellent hybrid of blunt force and plercing. A tomahawk can be used for hacking and slashing or thrown for added range. The more weapons you make, the more options you have. The possibilities are as imitted.



Projectile weapons, such as this MRE pouch sling, have proven to be highly effective for both hunting and detense Ch the other hand. they require considerable practice to ass property and have a higher potentialfor famare

l'his improvised flai. features snarp spikes lashed together and tethered to to designs used during the 15th and 16th centuries It may not last more than one or two blows. but we certainly wouldn't want to take one apside the head

Learning from the Pasi

Learning about incient weaponry is crucial atoms effective implements of your own. Thousands or sears or mail and er went into the designs of many so called primitive weapons, and it would be foolish to assess in this crowledge.

Online encyclopedias have page index edged blantforce, and projectile weapon designs to study - of you could go old school and visit your local library. Start with a simple design, and bracked building it from materials commonly available in your area. Don't go expecting to build your sett a crossbow under pressure.

West importantly learn how to use your weapon of choice as its originators tarended. If you shall the warrane of the past, you it be better prepared for anything that comes your way in the biture.



Building a Weapon

Now that you're aware of the differing weapon classes, on to the halder part inow to actually build one. These techniques, and your available resources will vary greatly between urban and rural environments, so we will address both settings.

Urban environments (whether metropolises or smallowns) are rife with all sorts of useful manmade materials. Building a weapon from scratch probably wontibe necessary here, seeing as how there are many preexisting weapons available. End we're not even taking about guns and machetes. Crowbars, chef's knives, baseball bats, and the like would be relatively easy to obtain if you find yourself



n a place devoid of any effective imprompt... weapons and forced to create a more effective tool, pienly of building matter als can be found in homes and businesses — duct tape, cable ties baing wire, and even proxeniglass.

One key point to remember in urban settings during a chaotic event you!" be more kely to run into other people carrying more formidable weapons or guns, making stealth a key to self defense.

ess environments make it much more:

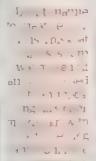
Rura or wilderness environments make it much more difficult to build improvised weapons, primarily due to the lack of manmade materials. Even finding something as simple as cordage to lash a dub together can be a struggle. Your primary materials will be storie and wood so think primitive. Clubs can be formed by ashing a rock to a branch with fibrous vines or bank strips. You can also use twine paracord or fabric from your own ciothing in whatever is available with they eto) do



Tradition of the property of a care as on 1 the care and property of the care at the care

Barbed wire fences can be a real asset, since the sharp wire can serve as both a binding agent and part of the weapon itself. Additionally, the thin stamped steel fence posts found in some areas can serve as a lightweight, strong weapon handle. Other materials to keep an eye out for nature has bone, she is, and garbage. Something as innocuous as a discarded plastic bag can be repurposed into a single pout hind cordage.

Many other weapons can be constructed quickly without complex tools. A spear can be formed by working the tip of a branch against a rock, or using a small knife if you happen to have one if you've got a larger fixed biade knife just lash it to the end of a pole for added range. Even if you're not in a wooded areal paim fronds or yuccal stalks can be used in place of branches.



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The Filipino Connection

If you re a lan or the Space theating, you we prougly never looked at a ballpoint per the same was after watering the first netalithers of it is notice transfirst in the 2002 originar the firms aminesial spy (piewed by hair Director disparcture various assumption with the help of all-sources or original collects are facing said can

Minds of the maissance action comes contest of facility chareographer less treated a structural and maintain a list who becomed heavily from his background in both next who becomed heavily from his background in both next fame the three systems emphasize and originally and criving maintaint — and your opposing t — using any and all means available to volu while estimate of each comparison of background to keep as suchers, can approximate an important anything they can grasp. Percips, unanguary and even this way managang makes up mic a type are potentially tellul improvised weapons in the language of a scanon estima grasphore.

You have chest i have to be hasti Bourne (if you to levelor competency in using everyone intents at self-desence tools. From positived Hastinghto to acts sors ordinary news can make one interence between going care know kied and having a district tartical advantage in an unexpected emergency.

- By Patrick Villing





harp rocks. Arrows Catabults. Blunderbuss SCAR-17 rife intercontinental ballistic missies. Since the dawn of time, man has been crafting weapons. Much like our need for food and shelter it seems the desire to defend ourselves from harm is ingrained in our DNA land most of the time our fists and feet just aren't good enough. Take a look at even the most primitive, isolated cultures on earth, and you if see a plethoral of different weapon designs from simple spears and clubs to more advanced contraptions. It's easy to understand why, in many cultures to have no weapon is to face an immediate, painful death.

Today weaponry has evolved considerably beyond the humble spear. In fact, many of us own firearms that are more powerful, durable and compact than our ancestors could have possibly droamed. Still it's easy to become overly reliant on our modern technology, and we rarely consider what might happen if these nightech weapons malfunction.

Or, worse yet, if we found ourselves in a life-and-death situation completely empty handed

What if you were thrown into a host ie scenario with nothing but your ingenuity and the clothes on your back? Would you have what it takes to create your own weapon and survive?

The mention of improvised weapons may evoke images of wilderness survival. TV personalities building overly complex snares or poison darts, but the reality is much simpler in fact, makeshift weapons have a long history of real-world effectiveness. For example, just look at the prison system Even in the most Spartan environment imaginable with limited resources and under near 24/7 observation, convicts have managed to create deadly weapons from combs, toothbrushes, and even to let paper lit's all about setting one's mind to the task at hand and taking slock of one's resources. Once that happens, weapons will become readly apparent.



Here's a small sample of a few improvised weap ons created by untrained survivalists over the course of a few hours. The diversity seen here is truly impressive. Now imagine what could be done with a little study and practice.

Bian, force weap ons can be as simple as a rock lashed to a stick. However don, mustake their lack of complexity for a lack of effecaveness.

Types of Improvised Weapons

Sflick between a rock and a hard place with all manner of predators to ther the two legged and four legged variety. ² The first step is to take in your surroundings and note what objects are available. Then consider whether those items can be crafted into three classes of improvised weapons brunt force, plenting, and project it. Each category has its advantages and disadvantages.



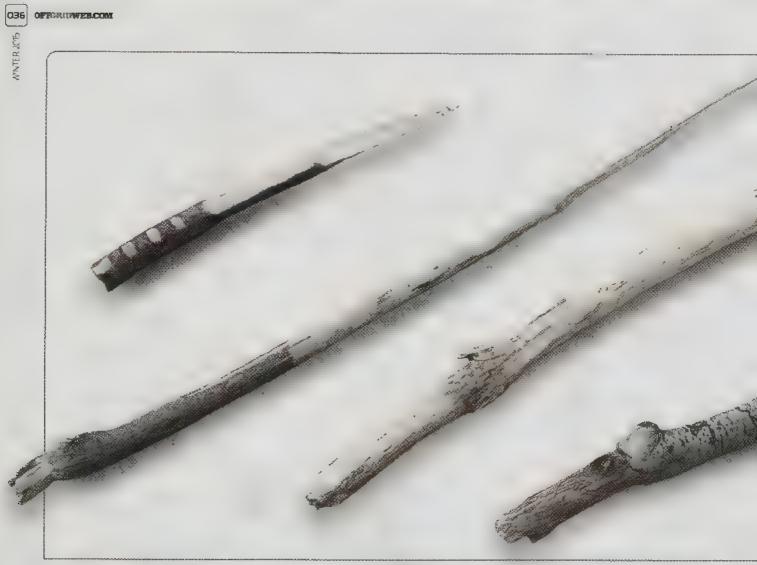
) **Blunt-Force Weapons:** They relexactly what they sound we is imple no-nonsense, and absolutely devastating when used correctly Channelyour inner caveman, because the caub is one of the most well-known weapons in this cat egory. Maces, staves, batons, and knickledusters would also faul into this class, as do kall sticks (for those of you familiar with Figin 5 martial arts), in a widemess setting, a solid tree branch would make an excellent brunt-force weapon, while

an urban environment might furnish a pipe, 2x4 or even an actual hammer

Piercing Weapons: These are much more versatile for survival situations, but also more difficult to create. These weapons are designed to slash or stab, and include shivs is spears, pixes, knives, and swords. If you're in an urban setting, you'll be likely to find any manner of cuttery, sc.ssors, or even a letter opener to use or modify into a spear in the wilderness, a simple sharpened stick of any length is a tried and firule implement of defense.



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The Art of Building Effective Makeshift Weapons

By Patrick McCarthy





Minny so-called "Black Filles" may look similar on year gan store's wall, but tool deeper and you begin to see why Beniel Defence's carbines stand out from the growd. We don't out correct on any aspect of the design, manufacturing, as assembly of each and every DDM4 model.

From selecting the row materials, it was tending and GG processes, we control every sepect of the DDM4's precion. Details the exid however forged horsels, properly-violated center key screws, bevolve magnetic, and includedly-tended. (MPL& HPT) below make a large difference in the Metime performance of a rifle.

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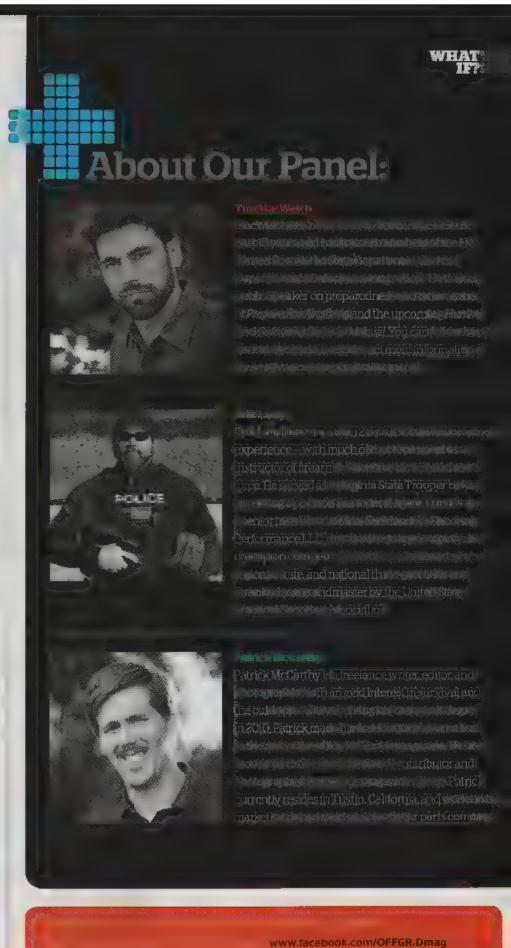
Conclusion

A not is a scary, yet survivable event. The first and most important step is to stay informed of the situation. as early as possible. The TV radio, and nternet can provide some news but they' be biased and not necessar vi up to date Social media can some times provide local info, but they reeven less reliable for accuracy Try to discover where the disturbance is ocated and why it's happening

Then communicate your situation frequently with your loved ones while the grids still up. Tell them where you are and what you plan to do. That way if you lose contact, they in ave a general sense of where to look for you when it's safe

Once critical mass has been reached for a not to form, one way to stay safe. from a roaming mobils to hunker down. and avoid the streets - unless you're in a position like our story's shopkeeper trapped in a looter's paradise. While frearms surveillance cameras, security curtains and builet-resistant glassican. provide added safety they can't be relied upon as the only solution against a egion of marauders

This brings us to the other method to survive civil unrest blend into the crowd. Whatever topic sparked the noters, yet what they ye, chant what they chant, and say what they want to hear. One thing always holds true the bigger the crowd, the lower the IQ of the mob mentality. If you find yourself in the middle of a not try to make your way to the edges and away from the crowd But as you make your escape be very careful not to get pushed up against a wai or fence You could be crushed by the press of people. Seek a safe haven to hole up until the crowd disbands, and if you hear nearby breaking glass or smell smoke move to a new hiding spot ##





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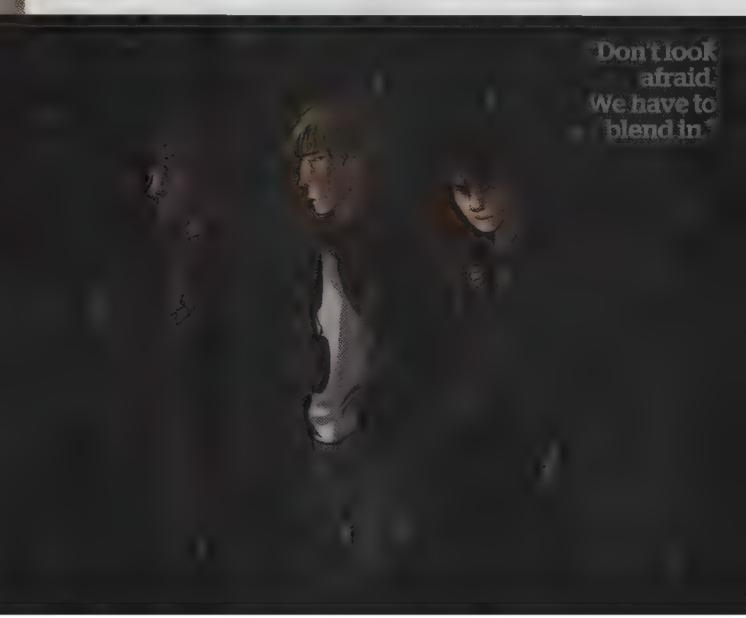
Fach one with a collect radio earpiece in his earland a pisto in a shand they must be note; security. Then incollect how the looked Trirect radio were at the door during a riou, wo with the lifaces rollect building on the front entrance it wouldn't have left them in either Scimuch for the hote; idea.

We resturned our tense frex passing but ning ours and drug died socters it seemed like our frozen odyssey would liever end, for morale, handed but some of the snacks and drinks. Though the drinks were now basically suspices or outright delithe rock hard granoila bars were edible and did see in toig verify buys some eiter giving three blocks oft." Damon said

The showfar started to diminish when iturned the corner and saw the most beautiful sight that entire day an immense ine of police of tickins dozens deep in fact in indreds of officers in rivitigear it, ome were in horseback in vehicles, on motorcivicies but most were on foot and preparing to march.

A queasy feeling gripped my stomach. We dialready been inistaken for obters and simpled past a whore army of them for a better part of thie evening. Would the poice think that of usialso? Would they even let us pass. Our indicontinued up the sidewalk, as if the poice were not leven there. But as we drew near to them is everal officers stopped us. They asked for Diand to look in my backpack, explained curron earland our destination is liently thanked God that Damon had his driver's livense with his address, legitimizing our nearby destination. Fortunately the order, were given for the officers to advance, and if evidecided to let us pass mainly because they had more important things to do incoded, thanking them id lot but a huge sight if relief as we's pipelupast, the liftcers.

After two more blocks, weld that yimade it to Damon's apartment. He practically sprinted to the thermostatiand furned up the heater. The warm air feit ike fire against our fir is to tten faces. Damon offered me and Rick a couple of beers from the fridge is use, my drink wits cold but needed it. After hours of raw nerves, fright temperatures, and braving the hordout notors. It has will that we were safe.





motivated my increased security protocols but in ever wanted it, never wanted to work inside a bulletires stant box, but what i wanted and what ineeded were two entirely different things. Along with the protective enclosure security cameras provided me a fig. 360-degree view outside the building. And what I saw was not good.

A group of marauders, 20 to 30 strong, had descended upon my store and several of the 'leaders' were kicking and hitting the front security screen in an attempt to breach the building. I yelled to Damon and Rick, "Grab the hose and hook it up to the spligot. Now Get up here when you're done?" I grabbed my celiphone and made a quick call to my son to inform him what was happening, with instructions to call the Michigan State Police. If anything did happen to me, wanted someone other than the locals to know what caused my demise, lasked him to be ready to come pick me up at the store if needed. While a did have my own vehicle in the back parking lot, a had no way of protecting or securing it. And inhad no way to know if it would be in drivable condition when I finally got to it. My son acknowledged that hield be ready for my call and could reach the store in about 30 minutes.

My two employees came running to the counter "All set boss". Damonisa di looking a bit nervous, but trying to sound brave. "Now what? I told them the pian was for them to stay inside the security counter and to call my cellphone. Was going to the roof with the hose, wanted them to watch the cameras and tell me where the mob was moving around the store. They understood the pian and locked the security door as I left for the back of the store.

After getting dressed as warmly as possible given the circumstatic es, dragged the hose up the access ladder in the store to the roof The roof was flat with a small knee wall that ran around the circumfer ence of the building. It afforded me a little protection and allowed me. to move around with a small degree of concealment. From the roof could hear the chanting, laughing, and cheering even clearer now Lying prone, ipeeked over the knee wall could see a large part of the group through the falling snow. Even on the roof, could feel the vibrations of the blows to the security curtains shaking the building. Those curtains had done a good job so far but i didn't know how much ion ger they would haid. The althe nozzle of the hose just over the knee. waii and squeezed the handle. A flood of freezing water rained down on several subjects attacking the security screens. Several seconds passed before the thugs realized exactly what was happening. They were thoroughly spaked in sub-zero temperatures, trying to run out of range of my hose amid ye is and curses. Those thugs will be hypothermic in 10 minutes if they don't leave and get out of those wet clothes. thought to myself. The first wave had been repelled

Through the hoots and jeers of the crowd laughing at the drenched rats running around, my initial success quickly taded. Some of the crowd accepted my defense as a challenge and began throwing

everything that wasn't ted down at me and the building. They wisely kept their distance from my hose, rushing up to throw some object and quickly retreating. Was willing to play this game as long as loculd but after a couple of hours the cold was quickly affecting me, too. Everything was numb. Peering over the wail liobserved one particularly defiant soul push through the crowd and walkinght up to the front of the building. Rising up to drench the boid rat, I was greeted with a steady cadence of pops ringing out from his pisto. "F#*kime." screamed, as lidove behind the knee wall, wasn't about to randomly shoot back into a crowd, and the roof was no longer a safe option. Checkmate in needed to get inside and work my way back to the security counter.

Climbing down the access ladder I could hear more shots z pping through the security screen. Reaching the counter my two wideleyed employees opened the door and let me in

"Damn, dude. They're shooting at us!" Damon screamed

"Thank you, Captain Obvious!" shouled back "Call the police again Let them know were getting shot at "

Looking Lip. Immediately saw my investment in the security counter had paid off. Two shots had randomly hit the security glass, and one would have injured someone had the glass not stopped it. Meanwhire, Damon had miraculously reached a live voice and was conveying our situation. Then, he shook his head as he put his phone away. "I got through, but the operator said everyone was getting shot at and they would send someone as soon as they could."

"We as long as we stay in this box," said "we'll be OK." At that exact moment, Rick pointed to the camera covering the back of the store and yelled, "Who the he'll is that?"

Four men with rifles jumped out of the SJV and moved toward the back door I puried my Grock from its hoister. "They are not getting inside this store," said "Damon, call the cops again the them there's about to be a gunfight!" I moved to the back of the store and took up a position to engage arryone who forced their way through the back door Suddenly the back door erupted with banging is sounds. I raised the Glock ready to shoot should the door break loose. Over the sound of the banging inheard voices arguing, but then inlecognized one. "Dad its Jacob Open the door!" My son and some of his friends had arrived.

had never been so happy to see my son (well except maybe on the day he was born). We all piled into the SUV and left the store. The four wheel drive handled the snowy roads sust as easily as the four rifles would have handled the snowy roads sust as easily as the four rifles would have handled any predators looking for an easy mea. Thanks to the quick thinking of my son, we all made it home safe. Several days after their ots finally ended and relative calmireturned to the area. The store had been ransacked and set on fire in the was a total loss. Insurance covered most of my losses, but it choose not to rebuild Retiring to the country seemed a more appealing option.

SURVIVAL EXPERT. Tim MacWelch's Approach

s the looters fore and kicked at the metal security
screen, yelling like an mals, the real danger of the
event began to sink into my mind if those people
broke through the barricade, they would destroy my
veilhood—and they might beat me to death Jus.

for kicks. And if it and to slip out the back, id be out there in the midst of them.

And I wasn't just worried about myse fill My two employees are young enough to be my sons. Their safety was my responsibility too Staying off the streets would be the smartest thing to do if only weren't sitting in a prime target for boting. Watching the news broadcasts didn't neighbor They described the maynem on the streets in my streets, my hometown. Aer a footage from news heicupters showed thousands of people in

the streets. Vehicles and buildings had been lit on fire. One piece of footage showed a man being beaten by a group.

Another attempt to use my celliphone and the land ine proved trultiess. All of the phone lines were ammed. The news said that buses, tax si and the Detroit People Mover light rail system had been suspended. We had no way out of the neighborhood, except on foot

My home in the suburbs would be unreachable, but I had a rough idea of where my employees lived Both lived on the butskirts of downtown. After a quick discussion I found out that the youngest man. Rick lived closest to the store, about 15 blocks away ill but on the other side of the riotis epicenter. There was no way indirest our lives on that trek. The other worker Damon, lived 22 blocks away from the store, but away from the main noting, we agreed that we'd head there or at least try to

After stuffing the store's cash into my wallet and jacket pockets, loaded up our only backpack with shacks drinks, and a box cutter. Then if aced the back door Scared of what might be on the other side, I pressed my ear against the door and istened for a few moments. As quietly as possible I unlocked the door and opened it a crack. The aley was dark already, even though sunset had not quite come. I saw some movement by the aley opening, so iducked back inside to wait. The air was cold and raw with the show flurries failing. None of us were dressed for a long walk in the open.

After another peek down the aley showed that the way was clear well exited and locked the two deadbolts on the dirty metal door. The young men agreed to stuck with me, as they seemed almost as fright ened as was Nearing the first open street, I took a deep breath and plunged into the stream of foot traffic. Some people had bandanas and scarves covering their faces. These, suspected were up to no

good Other people were laughing and joking, reveling as if this were a tail gate party at a Red Wings game. Then a few other people scurried by with frightened expressions and guick movements. And no sooner than ibegan to think that they should probably play if cool, a terrified woman got socked in the face by alg ri and her boyfriend. The couple kicked off a "boot party" on the poor woman before running away.

with her purse

Should we help her? I asked myse f Not with a grand in cash stuffed in my pockets and two scared guys expecting me to get them out alive my conscience should back.

i pulled my boys close and whispered "Don't look afraid. We have to blend in." Damon nodded and pulled the front of his undershirt up to his nose covering his face. Rick followed suit, popping his jacket's collar and zipping it up at the way past his mouth. In that moment. I had hope that this charade might just work.

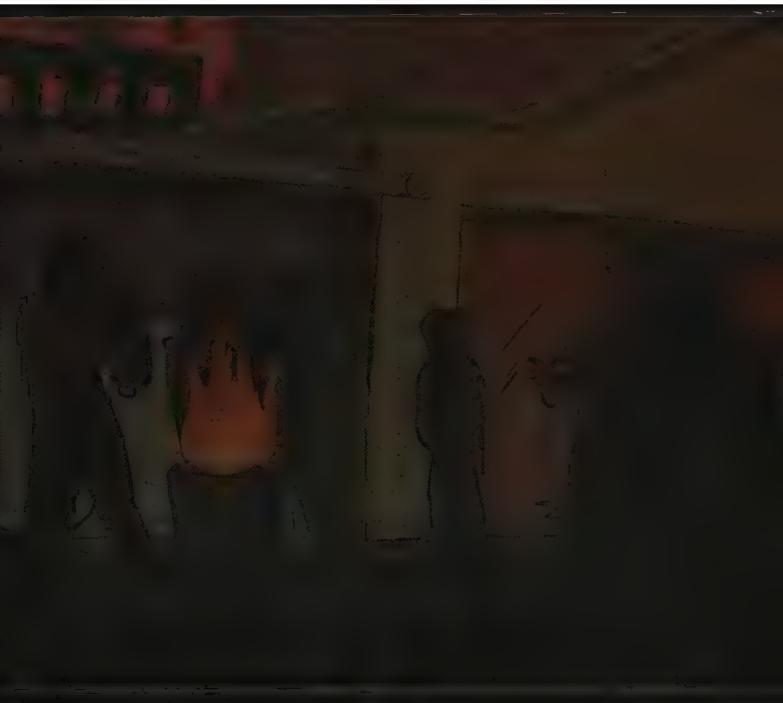
The wind began to pick up and the snow fell all title harder though this didn't dampen their oter's parade. As we threaded the crowds block by block, I with essed trashcans huried through windows, small cars being flipped over and fires being lit everywhere. My nerves were beginning to wear down, and I needed this to be over As our trio turned a corner halfway to the safe haven of Damon's apartment. I walked right into a huge muscular man who was stinking of liquoi. Startled, we all stopped He was lightly dressed despite the cold and his knuck es were dripping blood.

"What do think about that verdict, man?" he asked Realizing there was only one right answer I shoulted, "It's builshift Those courts are out to get everybody! can't even believe it. I just can't believe it." The big man simply grunted and headed off with a slight stagger. Another test barely passed.

Another block passed, and soon the crowds started to thin 8Lt we weren't out of danger yet. Thiugs still roamed the streets, looking for easy targets and potential victims. And all three of us were bitterly cold. Frostbite was a serious concerninow But eight blocks more, and we'd be at Damon's apartment. As ip odded forward, we drew near to something inadn't thought of before — a hotel lit dibe the perfect place to hide out until the looting subsided. There were two hotels between my shop and the apartment. Since the looby of the first one was on fire the second woll diave to be our refuge. This hote was undamaged, and inhad piently of cash to pay for a room.

"This might lust be your lucky day after al," said to my boys as pulled the hotel's door handle. But it didn't budge, grabbed it with both hands and yanked hard it wasn't frozen shut, it was locked. My hope began to dissolve in knocked on the large glass window, but there was no one inside in banged on the glass harder, and suddenly





Hilliff Than the wastnesday of hebrotes bids in

The Scenario



SURVIVAL SITUATION



YOUR CREW



LOCATION



TIME OF DAY



LEVEL OF DIFFICULTY



LENGTH





WEATHER

The Set-Upper

Your Gent

The Complication:

ven on a good day downtown Detroit can be a rough place to call frome but we were about to find out how bad it really gets. We had been hearing rumors of unrest in the city for days now, but halfway into my shift the televised news reports were beginning to get increas-

ngly ominous. The rloters had tired of simple breaking and entening, and were now turning to moti violence. Destruction for the sake of destruction - torching buildings, flipping cars, and viciously beating anyone who stood in their way.

Earlier in the morning, we had seen police cars screaming down the street, sirens blaring. Hours, later I spotted one headed the opposite a rection. No sirens this time. Around 2 or 3 p.m., we heard the first gunshots - not an uncommon occurrence in this part of town, but never with this frequency. Then the sounds started getting closer is made the decision to dose the doors early it shot like we had seen any customers for hours, anyway. Snow was beginning to fall as we pulled the security dates closed.

Then reality set in - none of us were going to make it home that hight. The sounds felt, keithey were closing in from all sides. Smashing glass down the block, cars blasting by the shop at full throttle impre-Staccato pops of gunfire in the distance

Before cashing out the register I to dimy two employees. Damon and Rick, to close up shop and kill the lights. It would draw too much attention to simply walk out to my truck and drive away, and it was much too cord to make it far on foot. Besides, a middle-aged man and two scrawny. college kids would make for an easy target on the streets, especially in our work uniforms. We dihave to hunker down for the hightin the back office, and head out just before dawn once the violence subsided.

The evening hours ticked by as we huddled around the tiny security camera monitor, watching the footage of shadows running by under neath the streetlights ou side. TV news was no help - after the chief of police made a statement that the situation was under control and a perimeter had been set up, the newscast cut away to other stones, and eventually to late hight informerdars. How can no one care what signing on here?

Notiong after midnight someone spotted the security camera out front, and smashed it with a brick. Then the sounds outside descended. upon us, with disembodied voices shouting and unseen ubjects. shattering the storefront windows. The assault seemed relentless, but miraculously, the security gates held. Thank God is pent extra for those reinforcements, could hear through the wall that the pawn shop next door haghit fared so well, knowing that the security gate wouldn't with stand another barrage, Damon, Rick, and lagreed on a plan. We would take some supplies and the cash from the register, head for my truck outside at 4.30 a.m. (hopefully when most of the looters would grow tired and head home) and drive like hell

FEDERAL AGENT: Erik Lund's Approach

he so and was as clear as an emergency —velklaxon

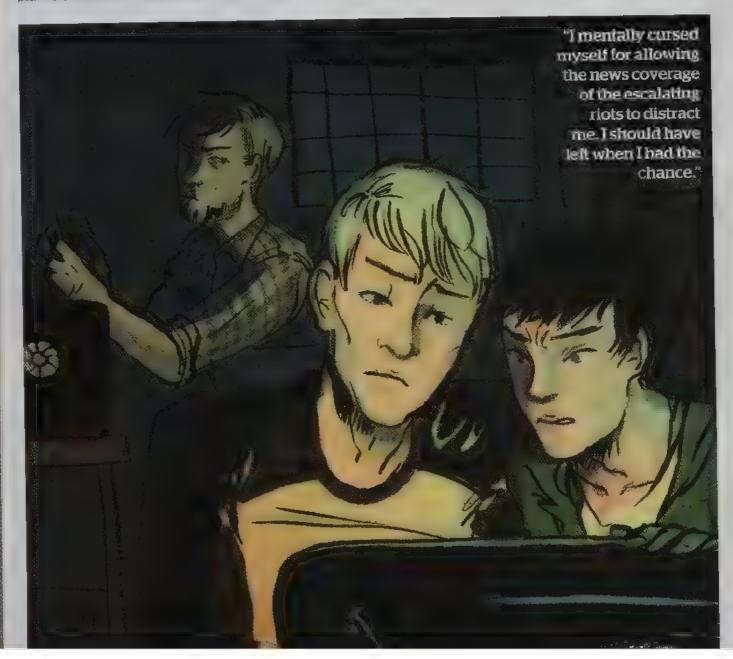
In a submarine if he metal security curtains at the
front or the store were being kicked attmping to my
fee —eft the back office to see flow well the curtains
were bearing the attack "Slay here" told Damon and

Rick my two young employees

mentally cursed in year for allowing the news coverage of the escalating loss to distract me should have eit when that the chance while it leaning protesters were gathering, before the mobinentality broke loose could have simply driven home, but now till was not unger an option. The falling show meant the roads were kely to give ome suchly and dogged with vehicles trying to eave the danger zone or with those trying to get into the area to participate in the trots. There's nothing like algood not to bring out the party

an mass Croups or marauders were roaming arround making their way toward the excitement of their ots. The thought of being stranded or carpacked in the imiddle of a Detroit winter showstorm had the sex appeal of Nancy Pelos. The idea of backing up and sacking up for a bug out hike backingme at right with temperatures hovering in the teens had even less. This meant would make my standler at my store had food shelter from the elements, good communications a reasonably defensible structure and a firm location should emerger by services be needed regardless of their response time. In six would be my Alamo

Walking to the front of the store inquirity of the front of the store inquirity of the front its secure blace behind the faminated security gives endosure that protected my rounter is lid two additional magazines into my parity process. Selving insuccessful robbery attempts



AVERAGE JOE. Patrick McCarthy's Approach

In the early morning hours, once the noise outside had died down I grabbed my backpack and sliently loaded it up. Bottles of water protein bars, beef jerky, and the limited contents of our medical end-cap. Each of us pocketed a box cutter from the storeroom – not that it would do much, but it felt better than nothing inheid onto the oil. Dicel flashlight from under the counter, more for use as a blunt instrument than a source of light was shaking as morning approached. Was this really the right choice?

opened the back door at exactly 4.30 to find our parking lot looking like a war zone. There was trash and broken glass everywhere, and the choking smell of ash fixed my nostrus. My truck was on the far side of the lot, or at least what was left of it. Someone had smashed the windows and guitted the steering column. The tires were slashed My heart sank as I realized it wouldn't be taking us anywhere. Rick looked terrified but Damon said he thought we could make it to his apart ment about a mile away it was starting to get light and there was no turning back now in the apartment would have to do

We walked quickly as dawn approached feeling as it weld find another mobilities around every street corner Fortunately only a few stragglers were out at this hour and we were ignored think I may have seen a body sumped over in an intersection, but a definitely wasn't going to go get a closer look. After what felt like an eternity, we made it to Damon's complex, where the wrought-iron security gate out front appeared scarred but intact linside the building it was eerily quiet. We made it to his apartment, bolted the door, and practically collapsed it's amazing how much covering a mile in fight-or flight mode takes out of you.

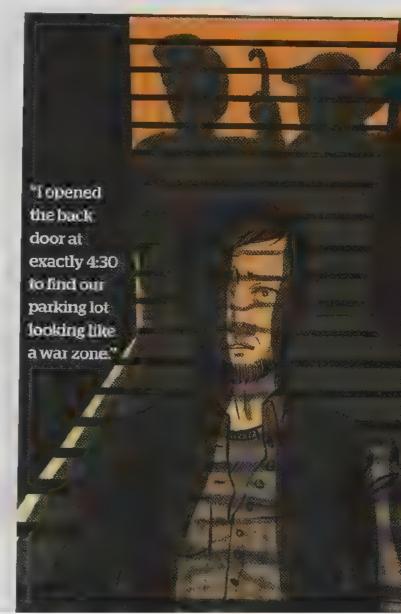
The three of us holed up in the one room apartment for most of the day, finally able to eat something and watch the news, it was pretty clear that Damon intended to stay here until the riots were contained, and ill couldn't fault him. But Rick and illust wanted to get home to our families. I knew Laura and the riots would be worried sick by now despite the text messages I sent before my battery died. I tried to call them using Damon's and line but I couldn't get through. At the lines must be jammed. So, the two of us decided to stay the night and head out again first thing in the morning.

Despite the exhaustion, i found myseif barely able to sleep that night Maybe it was adrenaline wearing off, or just plain fear at what the day would hold in the early morning hours, we talked with Damon to hash out our trave plans. Although he couldn't afford a car, Damon mentioned that his roommate had an oid hatchback in the parking garage. The roommate was out of town for the week, and Damon figured that he wouldn't, mind if we borrowed the car in getting it out of the city would probably save it from the same fate as my truck, anyway.

After topping off our supplies, grabbing the car keys, and picking up an aluminum baseball bat from the apartment's closet, Rick and I made our way to the buildings attached parking structure. Eyes adjusting

to the twilight, we found the natchback where Damon said it'd be. We were in luck — due to its ratty appearance, it had been overlooked by the mob. We hopped in, and it sputtered to life as I turned the key.

Puiling out onto the street, the engine noise seemed deafening against the early mornings silence, we drove block after block, tension slowly fading as we navigated through the abandoned cars and rubble. A few miles later the roads cleared, and we eventually rounded a corner to find a handful of linked metal barricades blocking the street. A small army of police officers stepped out from behind the barricade, shotguns and AR-15s in hand. They weren't messing around. This must be the "containment plan" we heard about on the news. After a few minutes of interrogation about where we got the car (and why we had a baseball bat) and showing them our. Ds and my business card, we were a lowed to pass through. As we headed out of the city into the gray surnise, my anger at the polices complacency turned into a stark realization it would never be so unprepared again.



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EDITORS

Allookikack anda Way Forvani

nd in a blink, 2014 is gone. Last year started very much like the way it ended

Vicious winter storms pummeled the East Coast — so much so that the Federal Emergency Management Agency (FEMA) is sued "maior disaster" or "emergency" declarations in numerous states from Pennsylvania on down to Georgia But Mother Nature wasn't the only threat in early 2014. A storage tank spilled a little known coal cleaning chemical in West Virginia, preventing 300 000 residents from using the local water supply Meanwhile, on the Left Coast, the Coiby Fire (caused by an illegal campfire) scorched a most 2,000 acres and destroyed six homes north of Los Angeles

Spring didn't bring much relief Washington State faced the Leadlest muds de in U.S. history last March when more than 40 people were killed and an entire neighborhood was obliterated. That same month, Montana was hit with widespread ice jams that caused FEMA to deciare a major disaster. The summer of '14 brought the usual dangers more wildfires, more severe storms, more flooding. Tornadoes while ped through central USA, including lower and Nebraska. Autumn saw the voicance eruption and lava flow in Pahoa Hawaii, and the start of the overhyped Ebolia scare in Texas and New York. And Old Man Winter returned and brought enough show to blanket Buffalo. New York, and much of the Northeast practically overnight. Then there was the renewed divilibration of an unarmed teenager.

As write this column during the Thanksgiving holiday the East Coast is being hammered by yet another snowsform. And I didn't even ment on the two lonewolf terror attacks in Canada or other major emergencies in North America.

ook back at the calamities of 2014 not to stoke fear or paranolal but rather to spur action. The most constructive thing we can do is earn from our past (whether ancient history or liast weeks news) and figure out ways to be better equipped so we can not only adapt but grow. While no one except Yoda and Canac the Magnificent can predict the future you can certainly expect adversity in 2015—and you can overcome it with well-researched knowledge, requiar training and practice, and an unshakeable mindset that you are a survivo

So in this, the sixth ecition of OFFCRID, we've packed it full of insightful articles by outstanding subject-matter experts. Survival guru T im MacWetch explains key concepts to surviving the winter if you're stranded in your car. Former Manne scout shipe Pete Palma shares survival tips he earned from Louisiana's homeless. And security and continuity consultantum DeLozier shows us how to make water safe with improvised filters, we're also debuting Hands On, a new column that offers

honest reviews of the latest and greatest gear and gadgets. The premiere edition focuses on lighted knives, Plus, we have a buyer's guide on off-the-shelf bug-out bags, a feature on handing health emergencies while abroad, and a tutorial on makeshift weapons should you ever find yourse flempty handed. Oh, and we put our digestive systems on the line to bring you a cannot meat taste test. Bon appoint

m proud of this Winter 2015 issue and really hope you enjoy it But if you don't, or if you think there are ways to improve it, let us know. Post your questions comments, and suggestions to our Facebook page at www.facebook.com/OFFGRIDmag or via email at offgrid@enthusiastnetwork.com. Without your feedback and support last year OFFGRID couldn't have become the successful quarterly publication it is now Let's take on 2015 with a mutual desire to share information and to promote a better prepared, more self-reliant society. So get out there, learn, apply, prepare and practice.

My best Patrick √uong





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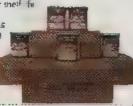
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6. Smelling is seeing

In Season 1, Rick and Glenn (and four seasons later, Carol) shambled among walker herds after covering themselves in zombie guts to disguise their human scent. Effective hunters often use both clothing and scent as camouflage and lure. Smell can be a deterrent, too: Some farmers employ coyote urine and human hair to protect their food source from rabbits and deer.

7. Shelter isn't always safe.

Don't assume an already-standing structure is perfectly safe and pest-free. Look in all the nooks and crannies for dangerous surprises before you hang your hat. Remember the Tombs in Season 3?

8. Gather food where you may.

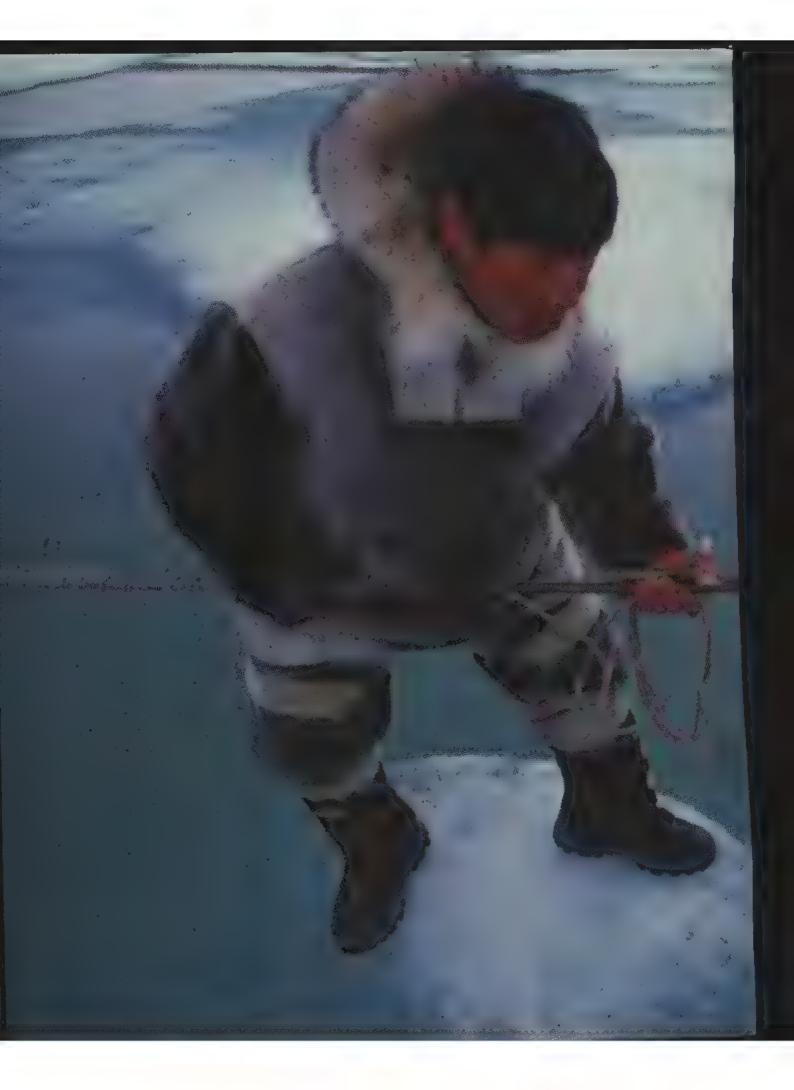
No, not like the Terminans. (RIP, Bob's leg.) But do look beyond the grocery shelves. Like Father Gabriel's basement stash from the food drive in Season 5, a termite mound can be a much-needed protein source. Just make sure it's a non-toxic, uninfected source first. (RIP, Bob.)

9. Learn how to wield your tools.

Things like fire starters are a lot less surefire if you don't have practice using them. Think back to Shane's gun training sessions near Hershel's farm in Season 2. They're what made Andrea go from not knowing how the safety works to being a stone cold shot the night of the fire. Patricia, on the other hand, could have used a little more learning.

10. Be aware of your surroundings.

As they walked into the unfamiliar Terminus in Season 4's finale, Rick noticed that one Terminan was wearing Daryl's poncho and another was holding Hershel's pocket watch. Trusting your senses can sometimes mean the difference between being the hunter or the hunted.



10 Things I Learned From TIHE WALKING DEAD

Though all five seasons of the show are fiction, the survival strategies are real. So are the spoilers.

1. Know when to make some noise.

When you're exposed without shelter, put up noisemakers around the perimeter of your camp site to alert you to trespassers—animal or otherwise. Empty tin cans tied on a string work. Bob, Sasha and Maggie used this pretty effectively in Season 4, when they were back in the wild following the Governor's devastating prison onslaught.

2. Use whatever you've got on hand to get the job done.

Walkers don't stop coming just because someone's left their knife in their bunkroll. Walking Dead survivors have dispatched zombies using screwdrivers, boot heels and a machete scabbard, and Rick took out a living villain using just his teeth. Daryl Dixon even used a walker's skull to bash in an attacker's. If you're in a survival situation, you'll need to use whatever works, too. Sticks become shovels. socks become water purifiers, and so on.

3. Make your own luck.

Don't stay in a dangerous situation and hope to get rescued. But also don't discount an SOS. Communicate however you can. Exposed because she was walking along train tracks in Season 4, Maggie wrote Glenn notes in zombie blood and guts alerting him to her direction—and kept walking.

4. Always make sure your water supply is clean.

After all those gunfights and herds of walkers, it was Patrick's sneezing over the water barrel in the opener of Season 4 that nearly took down the entirety of Rick's crew.

5. There is strength in numbers.

There's something romantic about you against the world, but you might not want to go it alone. Loners tend to go a bit nuts. Rick and company are pretty good at keeping their "people" in one piece. Plus, in a group, as Hershel said, "Everybody's got a job to do."

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SINFECT DEADLIER THA

By John Teator



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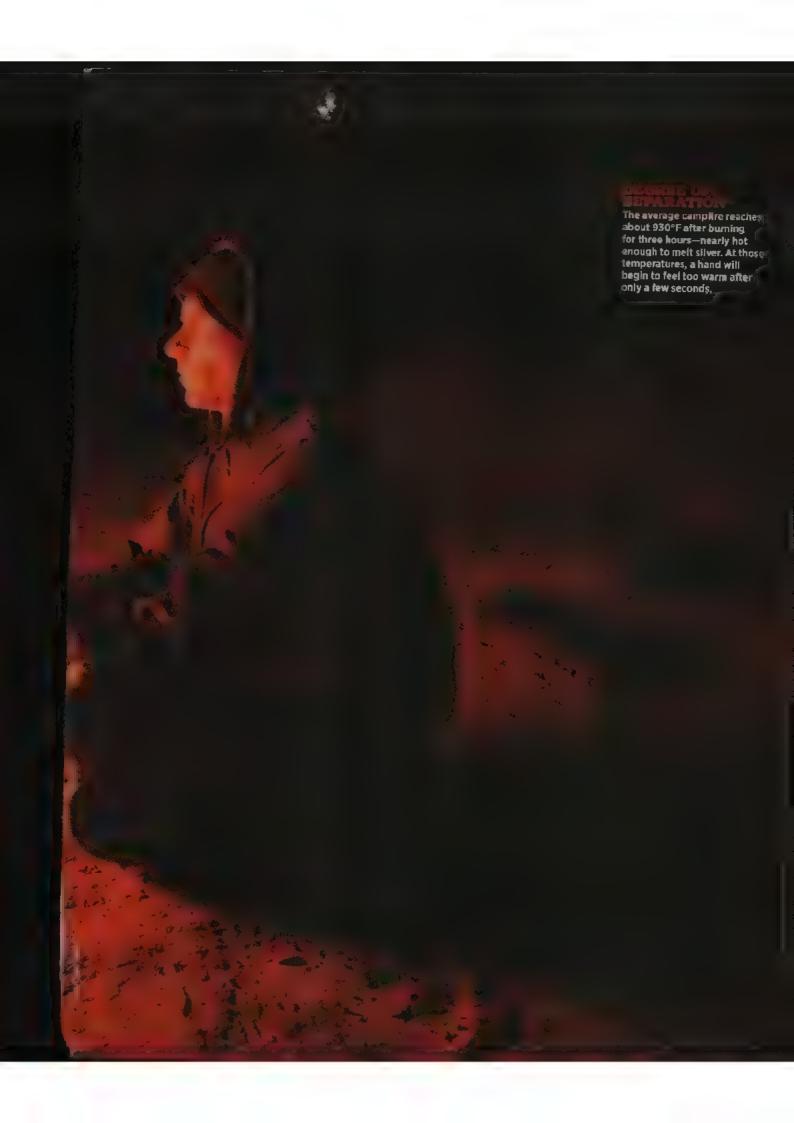
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Marco Clentia



SURVIVORMAN Essentials



Les Stroud—a man who's spent the last decade confronting the wilderness alone with only his skills and a camera—holds forth on zones of assessment, wind and the unsung power of a hunk of cheese.

We can handle the pouring rain all day. Oh, now you have a cance mishap and you're at the side of the river. That's two lemons. Not such a big deal. All you've got to do is dry off, repack the cances and head downstream. But, if, out of that dumping in the river, somebody broke an ankle, that's three big lemons. Three big, fat lemons. And, usually on the third, that's when it's like, "We have to do something about this." Those three lemons pop up and change what you're gonna do.

You've also said that in a survival situation you should keep moving. Why?

The whole "stay put"—that's a bit of an outdated thing. You have to start thinking, "OK, first of all, does anybody know where I am? Is anybody expecting me? Will somebody come looking for me—yes or no?" It's a big

rain's coming in, you're running out of food, somebody's injured, you're a long way from home, nobody's expecting you—no. You need to get up off your butt and start proactive survival.

You decide to make a move. Push forward or retrace your steps back?

Sorry to premise every single answer with "it depends on the variables," but it does. I would say, more often than not, retrace your steps back out. The problem with moving forward is you are moving forward into the unknown. It may be like, "Oh, my God. It's 50 miles." Yeah. But you know that 50 miles.

What is the essential thing I can do to give myself the best chance of getting out?

I'll give you three. My number one thing of all, in all different without MapQuest. How to tell East from West, and how to walk in a straight line through the wilderness. And number three, know how to keep yourself warm. If you're in a cabin and you've gotta travel somewhere and you don't have a coat, are you gonna think smart enough to put newspapers in your pants? Are you gonna wrap your hands in a rag filled with moss? Those three skills together will do you very well

How do you walk a straight line to will have a

It's not easy. You can get turned around so easily, and we tend to favor our right leg, so we do these big circles. One little track is, if I look straight ahead and between here and there is a bunch of trees, I purposely go around the right side of one tree and the left side of the next tree, right side of one tree, left side of the next tree. And that kinda sorta keeps you a httle straight. Another way is, if the sun is shining, and you're walking this way, and the sun is basically positioned just over the right edge of my right eye, well, let's keep it there. Of course it'll move. But generally speaking, I can keep it like that for the next 15 or 20 minutes and be in a fairly straight line. OK, now it's going to be on my temple. Now I'm going to have it on my temple for the next 20 minutes or so. And so on.

What don't you leave home

I always make sure I've got a surefire way to get a fire going.

"It's not about, 'Well, I'll just be gentle and wait here and everything'll be alright.' No, no, no, no, no."

variable, but I personally believe surviving is a proactive endeavor. And, everybody that I've ever seen learning survival under my tutelage that is extremely passive does very poorly. It's not about, "Well, I'll just be gentle and wait here and everything'll be alright." No, no, no, no, no. Storm's coming in, weather is coming in, cold's coming in,

types of situations, whether I'm in a desert or a jungle or the Arctic—get a fire going. It changes everything. You feel better, it scares the boogeyman away, it purifies your water, cooks your food, keeps you warm, creates light for you. Another one is understand and learn navigation—without a GPS, without an iPhone,

COURTESY JAJAA BOMBIER PHOTO

You're Canadian, so, say you're stuck out in the cold. What do you do to keep your body heat up?

Right away, you have to determine if it's windy. Wind is a deadly, deadly force when the temperatures are cold. And that doesn't matter whether you're in the city or in the wilderness. Getting out of the wind will improve your circumstances 50 percent right away. Any way you can devise to protect yourself from the wind, whether you're banking up snow or using branches or dropping down into a gulley. The point is: Get out of the way.

What's so bad about wind?

It sucks all of the heat right out of you. And on the subject of losing heat, sitting down on a cool ground sucks the heat right out of you, too. So does leaning up against a cold wall. We want to get heat back into our bodies. Jumping jacks help, I do push-ups a lot. Moving should be an obvious way to generate heat within your muscles. The difficult part is you can't do jumping jacks all day long. But you can pace it out. Every 20 minutes I'll drop and do 20 or 40 push-ups in a cold scenario. A way to get warm right before bed-I always advocate thishave a couple of good chunks of cheese. That will burn in your belly all night long and create internal combustion that heats you up while you sleep.

What predicament is more difficult for survival—extreme heat or extreme cold?

With extreme heat, you can duck behind a sand dune, hide behind a tree, wait out the heat of the day, work at night. When it's cold, you cannot stop. You have to keep moving. You have to keep affecting your survival. You have no forgiveness. And you must always be doing something about the fact that it's cold. People often ask me where the toughest place in the world to survive is, and I always say it's not at all about geography, it's about temperature.

What is the first thing you need to find in a survival situation?

The very first thing is you must calm down. It doesn't matter what the circumstances

the night if I have to 'cause it's gonna start getting dark. Zone of assessment number three is knowing what's further afield. About half a kilometer up river, we passed a cabin. And I actually remember looking at the map, and I know that if we walk east for half a mile, if we just stay straight and walk east. we have to hit a road, Now, all of this questioning really only takes about 90 seconds. In about a minute and a half, you've ascertained all this knowledge. Well, now that you've got all this knowledge, and you're sitting down and calm, you can

"When it's cold, you cannot stop.... You have to keep affecting your survival. You have no forgiveness."

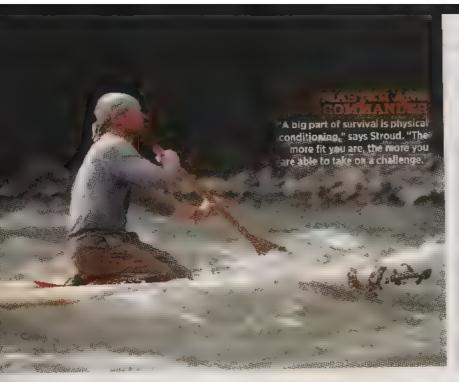
are. The next thing you need to do is to find a way out of those circumstances. How are you going to do that? Well, you're going to do that by first acquiring knowledge, second by making a decision and third by acting on it. Now, let's walk through the three zones of assessment. The first zone is what do I have on my body or in my pockets? What am I wearing? What's useful for me? And that also includes your physical shape as well. Oh, I've got a broken wrist. Oh, I snapped my ankle. Zone of assessment number two is what's in your close surroundings, OK, well, my backpack's right here beside a tree, and it's got a tent in it, and I know I can wait out

say, "OK. Here's what I think we should do." Maybe it's build a shelter and stay the night. Maybe it's get the hell out of there. Maybe it's try to signal for help. It's a thousand different variables of what you're going to do. However, at least you're now going to do it with knowledge enough—and, you know, knowledge is power.

You've said: "When you have three lemons, get out." Where does that rule come from?

It's something we actually used to say when I was a guide. Obviously, it's a rough rule of thumb and variables matter. But if you're out there and it's pouring rain all day—boom, there's a lemon right there. But, whatever.





It's a butane-filled lighter with kind of a torch-end on it. If I want a fire, I want it quick. I don't wanna be rubbing sticks together. Always a shelter. Even if it's a big orange garbage bag folded up small and shoved in a side pocket. Believe it or not, a flashlight. I don't like being caught in the dark. The other big thing is something to boil water in. To me, I'd rather have a pot I could boil water in than a knife.

What are some of the most valuable lessons you've learned from native peoples?

I've never been about, "It's me up against nature, up against the wild." That's not what this is about. It's learning how to work within the rhythms of the wilderness and within the rhythms of a natural environment. And a lot of native cultures reinforced and taught that. The reality is we cannot beat nature. No matter what we think and how powerful we get as human beings, we can't beat nature. One nurricane comes in and destroys all our hopes and dreams.

What are some of the bad things that maybe are hidden, or people just wouldn't trank mayn.

A completely underestimated one that is very insidious is lack of sleep. You're scared, so you stay up all night, then you push through the day. And then you are making bad decisions and doing foolish things. You know what? You got a moment here during the day, the sun is shining-why don't you grab three hours of sleep? Otherwise, it's the small things. It's the hornets' nests and the biting ants and the little beehives and the little stinging caterpillars, or whatever. Those things are a lot more of a hassle to you than a jaguar or a lion or snakes or something like that. Those little guys are the guys to watch out for, for sure.

What do you think is the number one mistake that newbies to the wild make?

The biggest I see is the mindset that "It can't happen to me—we're not gonna be the ones who have a canoe upset; I'm

not gonna be the guy who gets turned around in the forest and loses my way on the trail." And the problem with that mindset is that you don't pack properly. You don't prepare. And another huge part of this is taking responsibility for curselves. You can trust your guide, you can trust your friends, but rely on yourself.

What's the most scared you've ever been?

I hesitate to use the word "scared," but I don't mind using it in this one instance. It's a long story, but the reality is, I was out in a survival situation, viewing some moose, and I ended up having a 1,500-pound bull moose with a full rack of antlers chase me through the forest. I ended up going up a tree, and then I had to jump out of the tree at some point and run away from him some more. And then I had to climb into the lake and sneak up the shoreline under the water. Moral of the story: I am really good at survival. So why could this happen to me? I got cocky. You know that phrase we use nowadays, "Eh, I got this." Well, when you use that phrase in a survival situation, you are about to experience trouble. It happened to me in the Norway episode. Going down that hill to the fjord, I could've died from hypothermia. It was one of the most dangerous situations I've ever had. Why? Because I thought to myself, "Ah, it's just a walk down the hill to the fjord. I got this." And I screwed up.

ON LOCATION

During the second season of his television series *Survivorman*, Les Stroud walks across the Kalahari Desert in Africa, on the Jookout for scorpions.

08 Shelter

One of the basic human needs is to stay warm and dry. But efficient sheltering goes beyond structure, from building a fire-lay to communicating to harnessing a source of energy off the gr d.

38

Sustenance Three days without water can spell

Three days without water can spell disaster in a survival situation.
There's a bit more time to gather food. But truly sustaining life takes savvy, research and a plan for sustenance far beyond the grocery shelves.

66

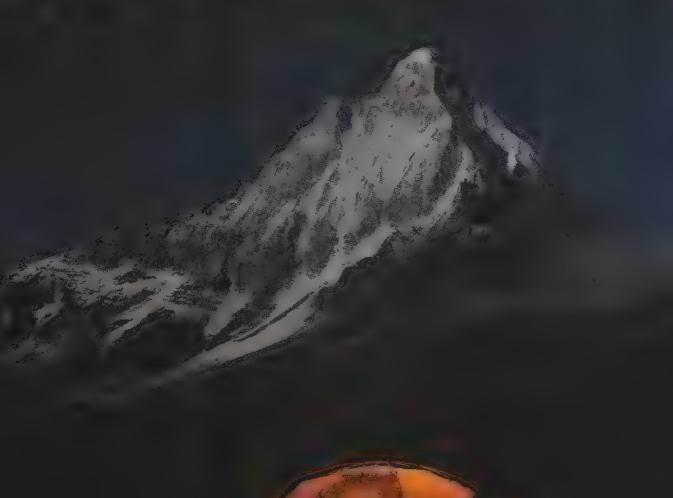
Survival Man versus nature is a lopsided

Man versus nature is a lopsided struggle humans aren't intended to win. Special Ops members, doomsday preppers, *The Walking Dead* and Survivorman himself offer useful tips to even the odds.



OFF THE GRID

SHIETHER







BUILDING THE BEAST To be ham-ready, you'll need (clockwise, from left): a car battery; coaxial cable; twin lead line; copper wire; and a radio (here, the Yaesu FTDX-5000).

and unfettered access to the airwaves. Once a ham, though, an operator is able to make contact anywhere, anytime. "From San Diego to the Falkland Islands, from New York to Tokyo, from you-name-it to you-name-it," says Ristorcelli. "Using moon bounce, a ham can transmit a signal to the moon and have it reflect back to the Earth. That lets you talk from pole to pole." There are some 3 million licensed hams throughout the world, excluding only North Korea, which does not permit amateur radio operation. It can even stretch up to the International Space Station, where there are fellow ham operators on board.

At the beginning of the decade, there was a network of just more than 700,000 ham radio operators in the U.S. The network isn't just folks with a car battery, an antenna and a will to take communication into their own hands. There are ongoing responsibilities that come with being a ham operator, too. Broadcast radio gained popularity around 1900. That led to the government having a hand in the control of the electromagnetic spectrum. In 1914, Hiram Percy Maxim founded a coterie of hams called ARRL (American Radio Relay League) and successfully argued that they should be allowed to be exclusive users of the long-range bands of the electromagnetic spectrum. They still are. Ever since, the ham community has been strictly following a code of behavior to remain deserving of the bands -for example, you have to stop talking every three minutes and identify yourself every ten minutes. And

ham radio's savvy operators have provided some unexpected boons to communication in the century since ARRL's founding. Real-time battlefield location, called Blue Forces Tracking, is based on the Automated Packet Reporting System (APRS) developed by call sign WA4PRS.

Ham radio itself has developed quite a resume in dire situations. "Ham radio isn't the only solution to the world's problems, but it is a resource," says Ristorcelli. He adds that during 9/11, it was ham operators who opened up communications when New York City's cellular and other conventional communications systems collapsed. The benefits, according to Ristorcelli—who personally helped locate a stranded victim of Hurricane Katrina via radio from California—are "that independence, resiliency, that thinking ahead."

It's a case of use it or lose it when it comes to the attendant radio skills required for when things go bad, warns Ristorcelli. "A lot of people get their technician's license because they figure this is a way to be in contact with people in an emergency. So they get a license, they go to a store and get one of those handheld radios, they put in the glove compartment of the car so that the day of the earthquake, they can call mama. But they don't know where the repeaters are and what the repeater frequencies are. They haven't established contacts"

"You can only make it effective if you plan for it in advance, and if you use it," adds Ristorcelli. "Plus, it probably has dead batteries, so it won't work anyway."



Prepper Rick Austin's Tips for Growing Hidden Grub



MAGINE A garden you plant once. It takes up very little space and grows five times more food per square foot than a traditional garden-and it's all disguised to look like overgrown underbrush. Here's some ground rules for creating your own Secret Garden of Survival:

Opt Out of Vegetables

In a situation where there is no electricity, no refrigeration, no supermarkets, no seed stores, no fertilizers and no pesticides, it makes sense to look at people who managed to live successfully for generations without them. Studies of indigenous peoples around the world showed that they have lived primarily on perennials (plants like grapes and apple

trees that grow year after year without replanting) as opposed to annuals (such as typical grocery store vegetables like carrots and cucumbers) that have to be replanted each year.

Grow Roots

Perennials have time to put down deeper roots, which enables them to get more nutrients and reach water deeper in the soil. It also makes them less susceptible to seasonal variations in sunshine, rainfall, cold and heat than annuals.

Forego Rows

In nature, plants don't grow in rows and don't need to be cultivated, trimmed, weeded or doused with pesticides. And nature has been growing fruits, nuts, berries and herbs successfully for millions of years.

Exploit Symbiosis

When growing naturally, plants are often symbiotic. Plants grow-some taller, some shorter-in a way in which all plants get adequate sun, air and rain. They often share nutrients and natural pest control; they sometimes grow in concentric circles where the tallest plant (often a fruit or nut tree) provides shade for shadeseeking plants and creates a natural trellis for vine foods like grapes. Outside the shade ring, a layer of shrubs like blueberries and blackberries can grow. Outside of that circle of shrubs, herbs can grow-which have the added benefit of attracting insect pollinators and predatory wasps, which may feed on "bad" bugs, providing a defensive perimeter around the fruit, nuts and berries that bad bugs cross at their own peril. Finally, around the herb layer is a lower level of ground cover, which accumulates nitrogen, a natural fertilizer, and it makes available to the other plants.

TEOTWAWKI Proof

Because we are growing in three dimensions, the garden can produce five times more food in the same space as a traditional garden and is almost no work to maintain compared to gardening with annuals. In a doomsday scenario, preppers are going to have enough work to do without tilling the field. And because these plants all grow together-and in some cases are intertwined-it looks more like overgrown underbrush than a food supply, which camouflages the garden from would-be marauders.



Most people know about Bug-Out Bags, or BOBs, but what are Local essential prepper terms?

SJ TEOTWAWKI is an acronym for "The End Of The World As We Know It" and it also has a pronunciation: Tee-ough-te-walk-ee. Then, there is GHB (Get-Home Bag), the INCH (I'm Never Coming Home) Bag, SHTF (S-t Hits the Fan), EMP (Electromagnetic Pulse), BOL (Bug-Out Location), BOV (Bug-Out Vehicle), SA (Situational Awareness), PD (Perimeter Defense), GOOD (Get Out Of Dodge)—the list goes on.

What are most preppers prepping for?

SJ Asking what people are preparing for is like asking a group of people to describe the color blue. Our mantra is you prepare for one, you prepare for all. It's best not to be event specific in your preparedness or you may find yourself caught off guard.

R It almost doesn't matter what the disaster is, because it is just a catalyst. If any disaster goes on long enough, the results will be the same: a lack of food, water, power and shelter for the unprepared. It is also important to understand that in today's computerized age of "just in time delivery" there are less than three days' inventory on the shelves of any grocery store.

Why is it important to propare?

SJ We prepare because we don't want to find ourselves sandwiched in a gymnasium for shelter or waiting in line for water after a disaster. By having

the necessities, you won't have to worry about someone coming to "save" you.

What led you to adopt the preparedness lifestyle?

SJ It was an epiphany for me. The incident that got my attention was when I was almost carjacked at gunpoint by two armed men who had just robbed someone at an ATM machine and were looking for a getaway

It can seem overwhelming. How do you get started?

R Learn all you can. The
Internet is a great resource
while it is still here. Create your
own prepper library. Of course,
you can't read them all now,
but you will be glad that you
have resources on how to fix
things, grow things, preserve
things and how to deal with
medical issues when you need
information most.

"By having the necessities, you won't have to worry about someone coming to 'save' you."

vehicle in broad daylight. That was the day my sense of security was ripped from me. I also realized that I needed to start being accountable for myself and began researching what it really meant to be "prepared." R I have always had a survival and preparedness mindset. I grew up in New Hampshire where you could lose power for a week at a time due to an ice storm or blizzard. So you learned to cook with wood, heat with wood and store your food out in the snow. I also lived for years in Florida, in the hurricane and lightning capital of the world, where you could lose power for weeks at a time, but in that case it was 90plus degrees and 90 percent humidity. If you weren't prepared, you were a victim, so you learned to be prepared.

Why organize prepper camps to instruct others?

R Some might say that we could be better off if we kept quiet, hid away and didn't tell anything to anyone. But the lone wolf approach is not so easy. In a really bad disaster situation, there is too much to do and not enough hours or people to do it. So you need division of labor and extra hands. And you might say that, selfishly, we know that the more people we can teach to fend for themselves, the less we have to worry about them trying to take our stuff.

What does the ideal off-thegrid outpost look like?

R I like a rural setting, because, first of all, you have the right mindset of people who are surrounding you. Just like in any military study on defensive

positions, the strategic high ground is the best. As part of my Secret Garden of Survival food forest, I have planted natural barriers and obstacles such as blackberries, Osage orange and other thorny "green fences" around the perimeter of my property. Water on the property is also a key feature. The soil and rainfall should be enough to be able to grow crops.

What's the most useless thing people think they need in their bug out bags?

R It's not one thing, it's too many things—too much weight. Just try walking five miles with your BOB. Most people can't walk to the end of their driveway with it on. You need to have things that can serve multiple purposes.

On the flip side, what's the main thing new preppers forget to have or do?

SJ Hygiene! Infectious disease is the number one cause of death worldwide. It is imperative that we have the means to keep ourselves clean and infection free.

So what are your three musthave items for bugging out?

SJ A poncho is one of my favorite items to have in an emergency bag because it is so versatile. It can be used as a tent, for warmth and to catch water for drinking. Another is a knife. You can hunt small game, prepare food and use it for protection. A lot of people who are just getting into preparedness get caught up in buying stuff with no thought



in mind. The focus should be on basic needs of water, food, shelter, protection, warmth, communication and first-aid and go from there. Oh, and my last item: rope and/or paracord. R One of the most overlooked items is a hat. As they say in the cold north, "If your feet are cold, put a hat on." Also, if you are in the woods, a hat keeps the creepy-crawlies out of your hair that could bite and cause infection, and it can be used to collect and, yes, even boil water by putting heated rocks in your hat.

What's the single biggest mistake that rookies just starting out make?

SJ I always caution, "Don't buy and not try." Which is to say, don't buy all this survival gear and then shove it into your gobags or garage.

R You can't just have gadgets and think you are going to be OK and survive anything that comes at you. What you need more than anything is practice. You need skills. Don't think you can buy seeds and then can grow a garden when you need it. That is folly.

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DOOM BOOM

According to a 2012 poll done for the National Geographic Channel, 9 out of 10 people surveyed expect a world disaster to occur in the next 25 years; 44 percent said they are ready.



Prepping for DOOMSDAY

Survivor Jane Austin and her husband, Rick, shed light on how to be ready for TEOTWAWKI—The End Of The World As We Know It.

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